

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL041218\
 Data File : VL031853.D
 Acq On : 12 Apr 2018 1:36
 Operator : SY/AP
 Sample : VSTDIC001
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Manual Integrations
 APPROVED

MMDadoda
 4/15/2018 3:06:02 PM

Quant Time: Apr 12 04:32:50 2018
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL041218AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Apr 12 04:32:50 2018
 QLast Update : Thu Apr 12 04:17:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.89	49	1249455	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.43	114	2905050	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.39	117	2807373	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.73	95	2291240	10.86	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	108.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.16	85	307386	1.317	ppbv	96
3) Chlorodifluoromethane	3.10	51	169758	1.059	ppbv	99
4) Chloromethane	3.26	50	82660	1.031	ppbv	97
5) Vinyl Chloride	3.39	62	88083	1.092	ppbv	99
6) Bromomethane	3.61	94	62198	1.126	ppbv	99
7) Chloroethane	3.70	64	36976	1.108	ppbv	100
8) Dichlorotetrafluoroethane	3.31	85	245629	1.143	ppbv	100
9) Propene	3.13	41	52343	0.822	ppbv	93
10) Heptane	8.38	43	172470	0.908	ppbv	99
11) Trichlorofluoromethane	4.11	101	283112	1.211	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.67	101	184243	1.191	ppbv	99
13) Ethanol	3.76	45	19721m	0.977	ppbv	
14) Bromoethene	3.89	108	69432	1.102	ppbv	99
15) Acetone	4.02	43	230228	1.096	ppbv	99
16) 1,3-Butadiene	3.46	39	82888	1.092	ppbv	97
17) tert-Butyl alcohol	4.49	59	88511m	0.929	ppbv	
18) 1,1-Dichloroethene	4.47	96	76291	1.092	ppbv	88
19) Isopropyl Alcohol	4.14	45	122277	1.068	ppbv #	96
20) Methylene Chloride	4.52	84	76940m	1.099	ppbv	
21) Allyl Chloride	4.59	41	115411	1.030	ppbv	94
22) trans-1,2-Dichloroethene	5.09	96	78398	1.050	ppbv	98
23) Vinyl Acetate	5.28	43	209536	0.914	ppbv #	97
24) 1,1-Dichloroethane	5.21	63	208998	1.076	ppbv	99
25) Ethyl Acetate	5.90	43	320573	0.990	ppbv	100
26) Hexane	5.91	57	148824	1.000	ppbv	95
27) Carbon Disulfide	4.74	76	187724	1.154	ppbv	99
28) Methyl tert-Butyl Ether	5.25	73	180306	0.895	ppbv	99
29) Chloroform	5.97	83	262805	1.108	ppbv	97
30) Cyclohexane	7.39	84	104257	0.877	ppbv	97
31) cis-1,2-Dichloroethene	5.77	61	133851	0.967	ppbv #	92
32) 1,1,1-Trichloroethane	6.75	97	247724	0.996	ppbv	99
34) 2-Butanone	5.46	43	211260	1.058	ppbv	98
35) Carbon Tetrachloride	7.27	117	255175	1.173	ppbv	93
36) Benzene	7.14	78	276255	1.010	ppbv	98
37) 1,2-Dichloroethane	6.55	62	209299	1.148	ppbv	97
38) Trichloroethene	8.10	130	110284	0.996	ppbv	90
39) 1,2-Dichloropropane	7.88	63	103549	1.048	ppbv	96
40) 1,4-Dioxane	8.13	88	43523m	1.096	ppbv	
41) Tetrahydrofuran	6.29	42	92032m	0.919	ppbv	
42) Bromodichloromethane	8.06	83	240324	1.112	ppbv	93
43) Methyl Methacrylate	8.28	69	92701	0.961	ppbv	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.13	57	485726	1.091	ppbv	97
45) t-1,3-Dichloropropene	9.56	75	107356	0.820	ppbv #	76
46) cis-1,3-Dichloropropene	8.98	75	147409	0.902	ppbv	92
47) 1,1,2-Trichloroethane	9.76	97	123402	1.094	ppbv	93
48) Dibromochloromethane	10.60	129	189208m	1.077	ppbv	
49) Bromoform	13.35	173	145121	1.125	ppbv	98
50) 4-Methyl-2-Pentanone	9.03	43	243683	1.057	ppbv	98
51) 2-Hexanone	10.43	43	212067m	0.994	ppbv	
52) Tetrachloroethene	11.52	164	104487m	0.947	ppbv	
53) Toluene	10.09	91	301619	0.956	ppbv	97
54) 1,2-Dibromoethane	10.91	107	173010	1.015	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.43	131	150193	1.162	ppbv #	1
57) Chlorobenzene	12.45	112	264483	1.049	ppbv	96
58) Ethyl Benzene	13.01	91	411504	0.920	ppbv	93
59) m/p-Xylene	13.30	91	753018m	2.041	ppbv	
60) o-Xylene	14.00	91	375580	1.008	ppbv	100
61) Styrene	13.83	104	59954	0.727	ppbv	98
62) Isopropylbenzene	14.97	105	481506	1.020	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.98	83	276496	1.136	ppbv	99
64) n-propylbenzene	15.87	120	113372	0.998	ppbv	88
65) tert-Butylbenzene	17.06	119	418525	1.035	ppbv	97
66) Benzyl Chloride	17.30	91	31680m	0.919	ppbv	
67) sec-Butylbenzene	17.60	105	605043m	1.073	ppbv	
69) p-Isopropyltoluene	17.96	119	458449	1.012	ppbv	98
70) n-Butylbenzene	18.86	91	468627	1.047	ppbv	99
71) 2-Chlorotoluene	15.76	91	340529	0.962	ppbv	100
72) 4-Ethyltoluene	16.15	105	372074	0.996	ppbv	98
73) 1,3,5-Trimethylbenzene	16.30	105	344652	1.016	ppbv	94
74) 1,2,4-Trimethylbenzene	17.07	105	392254	1.075	ppbv	92
75) 1,3-Dichlorobenzene	17.31	146	240569	1.078	ppbv	98
76) 1,4-Dichlorobenzene	17.46	146	226972	1.000	ppbv	96
77) 1,2-Dichlorobenzene	18.14	146	242221m	1.122	ppbv	
78) Hexachloro-1,3-Butadiene	23.68	225	97543	1.090	ppbv	98
79) Naphthalene	22.59	128	195109m	0.847	ppbv	
80) Naphthalene, 2-methyl-	25.24	142	31296	0.549	ppbv	90
81) 1,2,4-Trichlorobenzene	22.32	180	113949m	0.905	ppbv	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

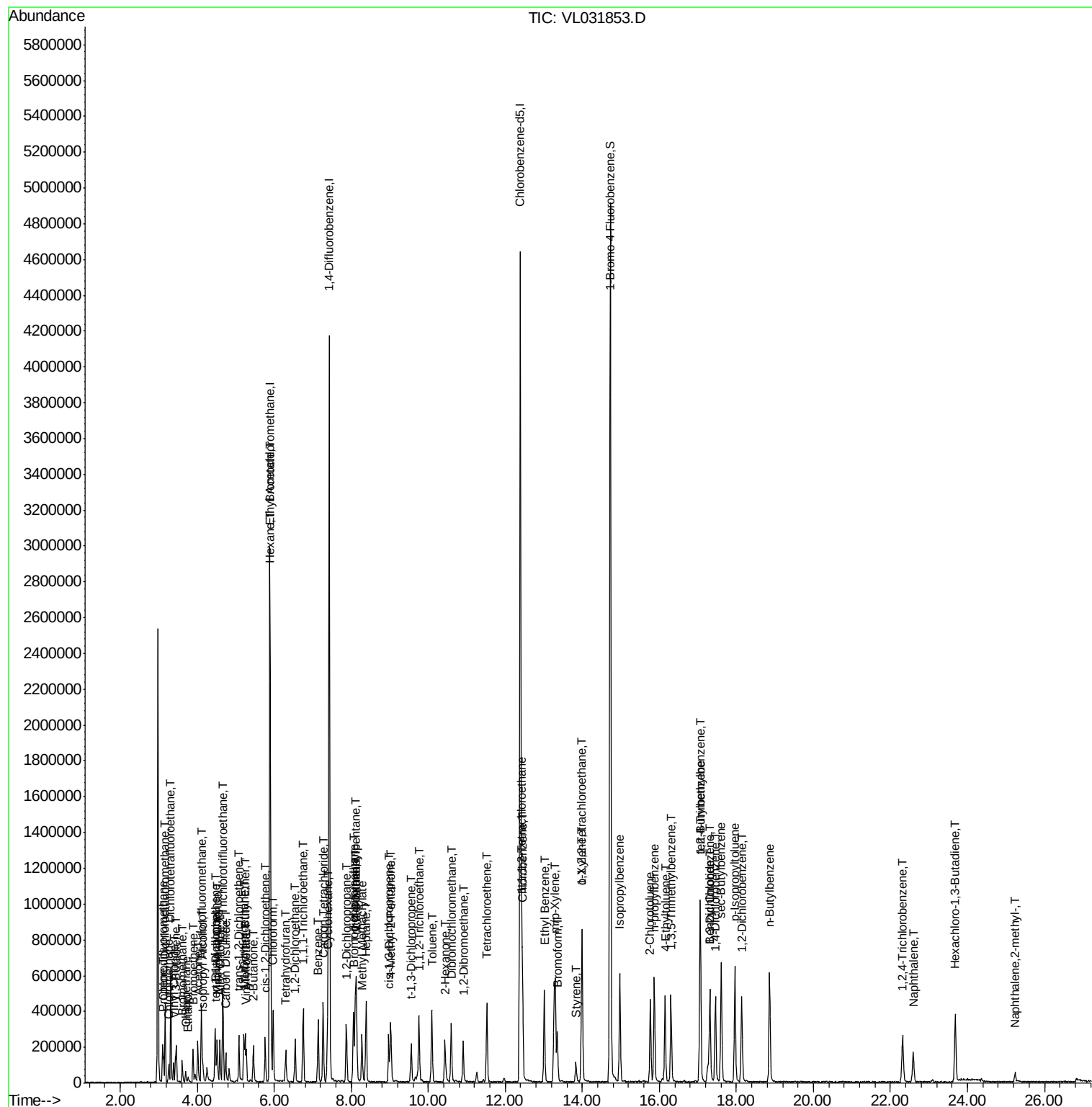
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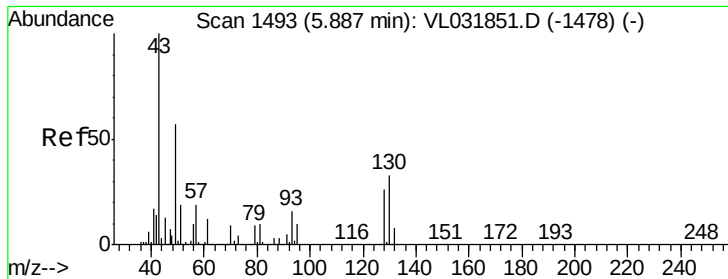
Instrument :
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QLast Update : Thu Apr 12 04:17:02 2018
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.89 min Scan# 1494

Delta R.T. 0.00 min

Lab File: VL031853.D

Acq: 12 Apr 2018 1:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 49 Resp: 1249455

Ion Ratio Lower Upper

49 100

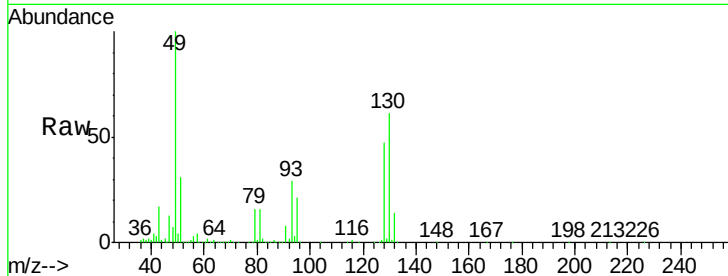
128 48.8 23.9 71.8

130 62.3 31.1 93.2

Manual Integrations
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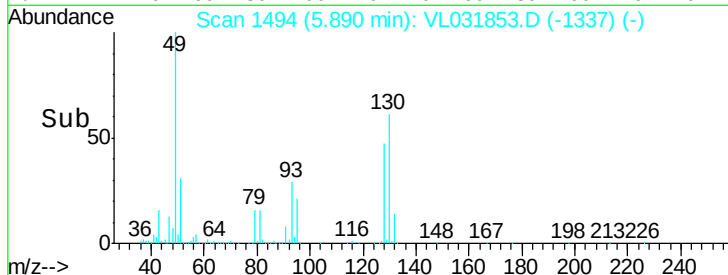
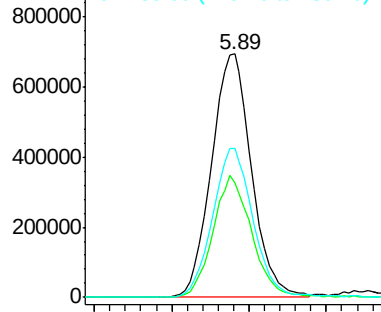
4/15/2018 3:06:02 PM



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 1.317 ppbv

RT: 3.16 min Scan# 646

Delta R.T. 0.00 min

Lab File: VL031853.D

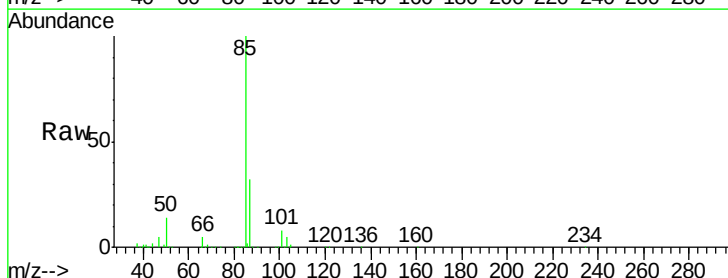
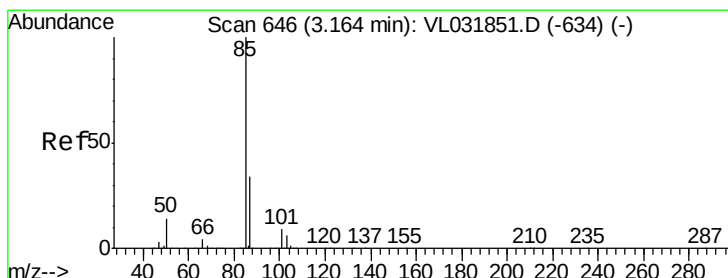
Acq: 12 Apr 2018 1:36

Tgt Ion: 85 Resp: 307386

Ion Ratio Lower Upper

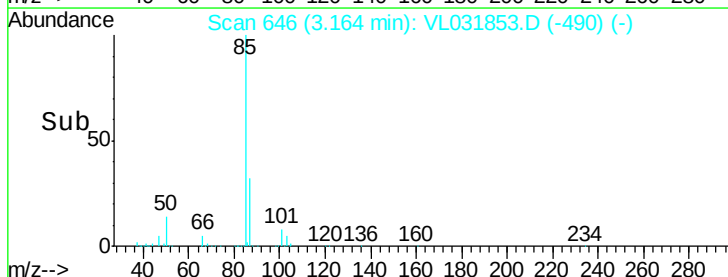
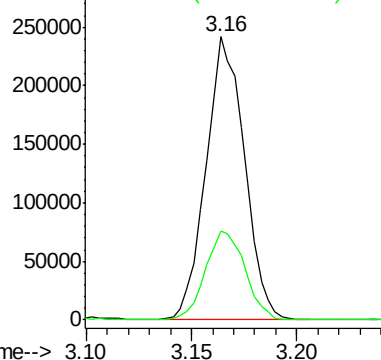
85 100

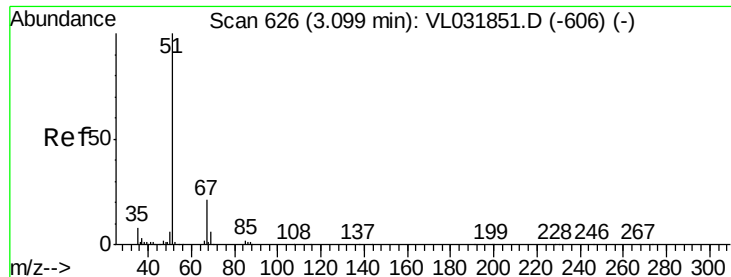
87 31.6 27.1 40.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 1.059 ppbv

RT: 3.10 min Scan# 627

Delta R.T. 0.00 min

Lab File: VL031853.D

Acq: 12 Apr 2018 1:36

Tot Ion: 51 Resp: 169758

Ion Ratio Lower Upper

51 100

67 20.6 16.7 25.1

Instrument :

MSVOA_L

ClientSampleId :

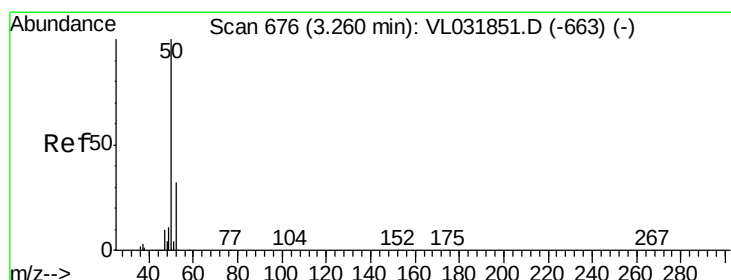
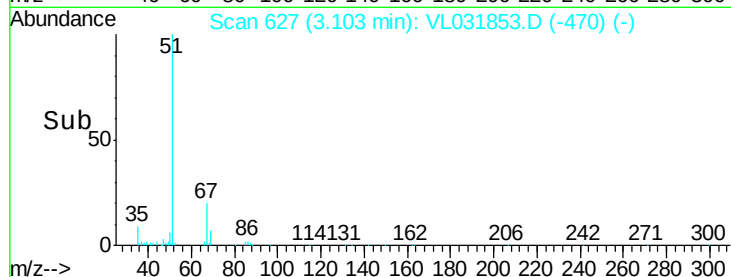
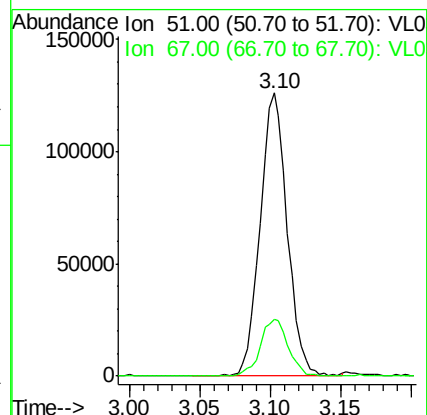
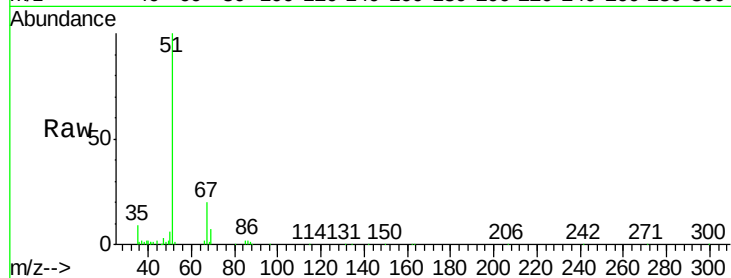
VSTDIC001

Manual Integrations

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#4

Chloromethane

Concen: 1.031 ppbv

RT: 3.26 min Scan# 677

Delta R.T. 0.00 min

Lab File: VL031853.D

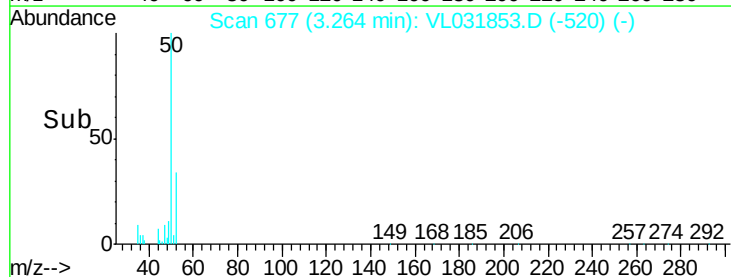
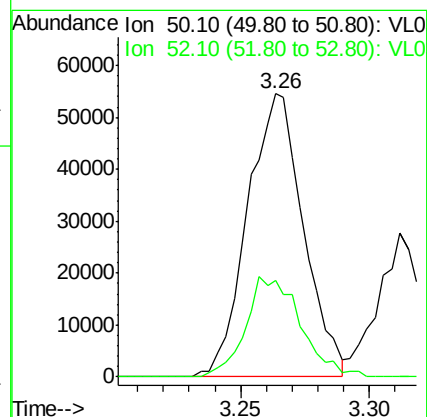
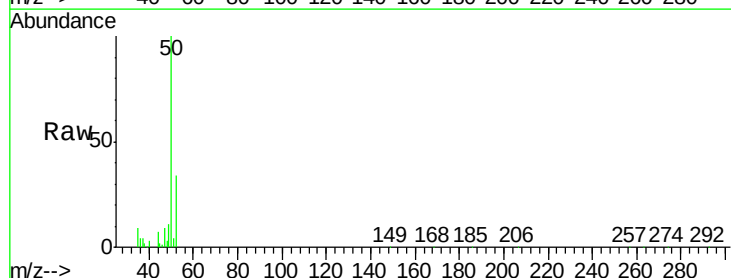
Acq: 12 Apr 2018 1:36

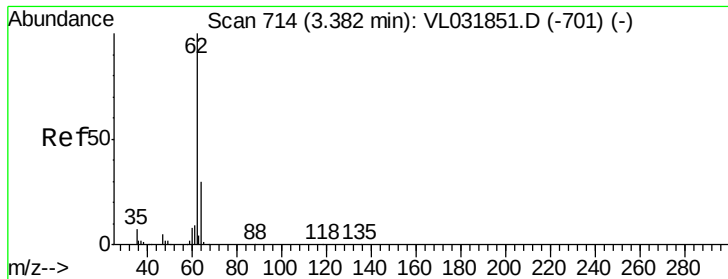
Tgt Ion: 50 Resp: 82660

Ion Ratio Lower Upper

50 100

52 34.2 26.0 39.0





#5

Vinyl Chloride

Concen: 1.092 ppbv

RT: 3.39 min Scan# 715

Delta R.T. 0.00 min

Lab File: VL031853.D

Acq: 12 Apr 2018 1:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 62 Resp: 88083

Ion Ratio Lower Upper

62 100

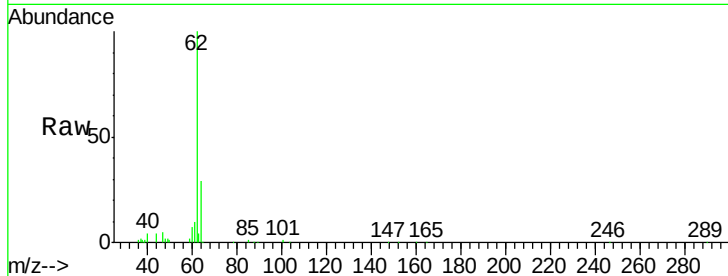
64 29.0 23.8 35.8

Manual Integrations

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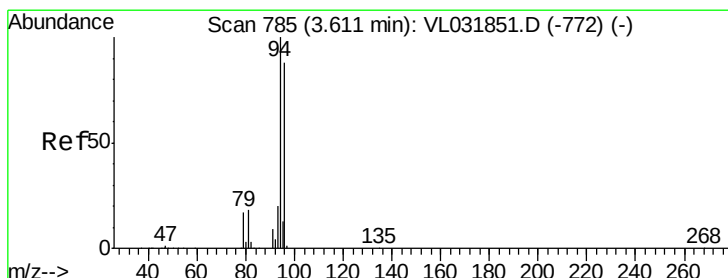
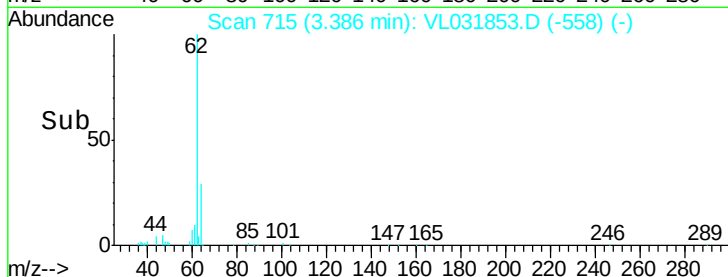
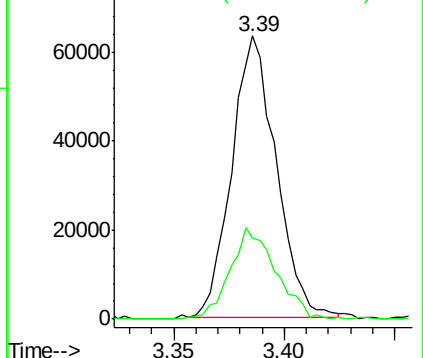
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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 1.126 ppbv

RT: 3.61 min Scan# 786

Delta R.T. 0.00 min

Lab File: VL031853.D

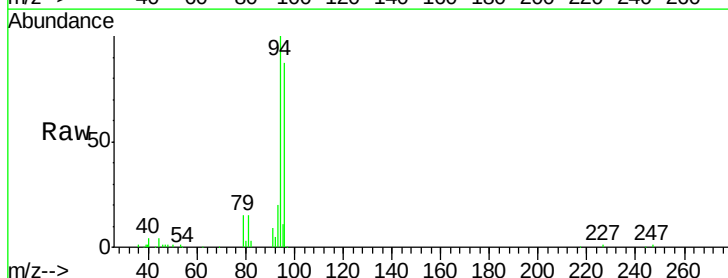
Acq: 12 Apr 2018 1:36

Tgt Ion: 94 Resp: 62198

Ion Ratio Lower Upper

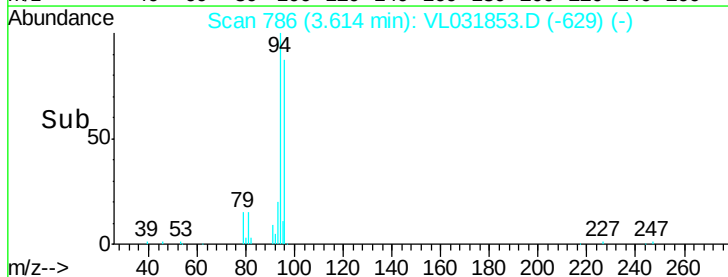
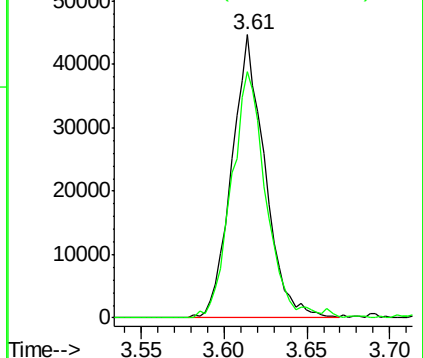
94 100

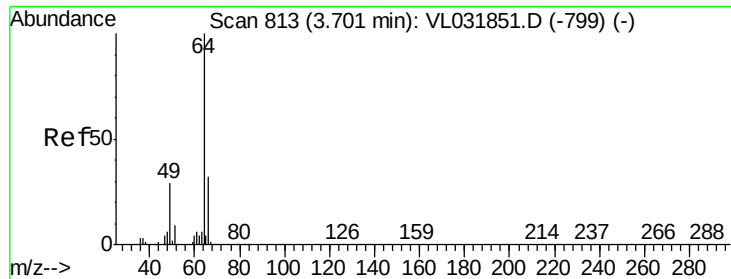
96 86.8 70.6 105.8



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 1.108 ppbv

RT: 3.70 min Scan# 813

Delta R.T. 0.00 min

Lab File: VL031853.D

Acq: 12 Apr 2018 1:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 64 Resp: 36976

Ion Ratio Lower Upper

64 100

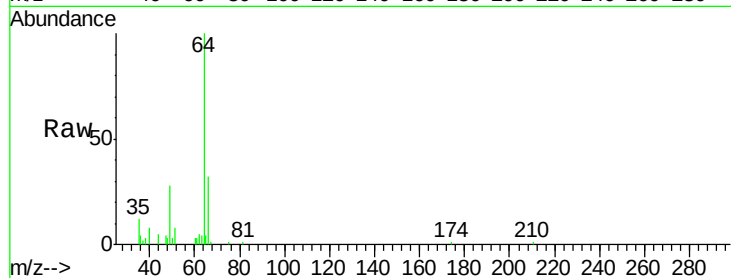
66 31.9 25.5 38.3

Manual Integrations

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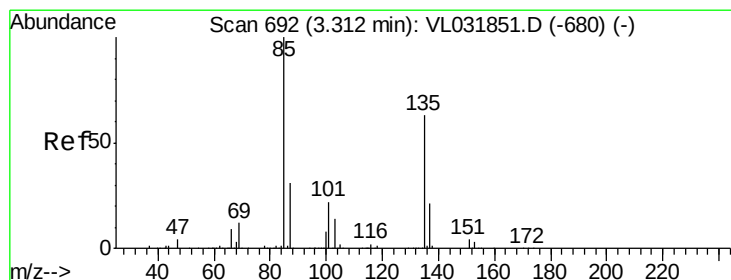
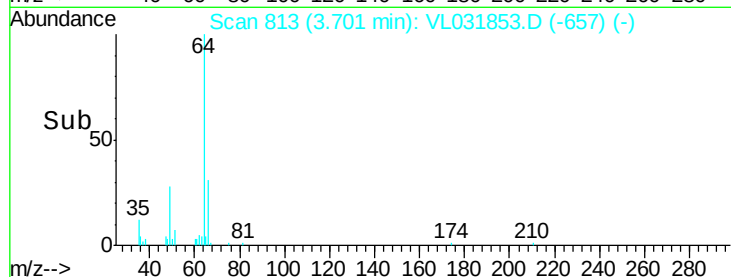
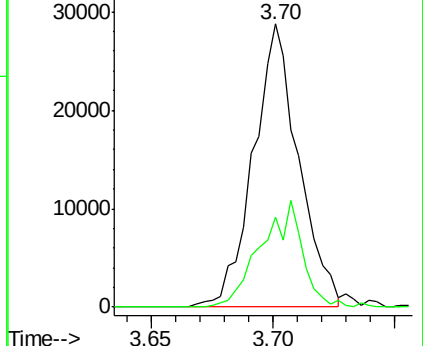
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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 1.143 ppbv

RT: 3.31 min Scan# 692

Delta R.T. 0.00 min

Lab File: VL031853.D

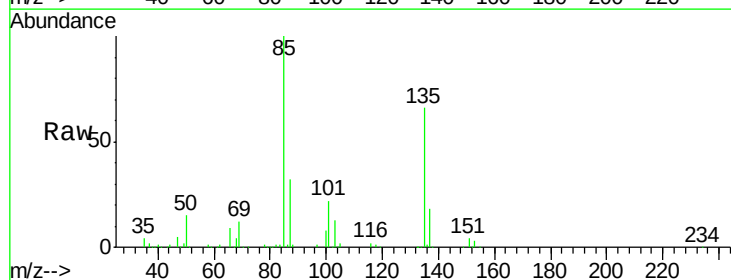
Acq: 12 Apr 2018 1:36

Tgt Ion: 85 Resp: 245629

Ion Ratio Lower Upper

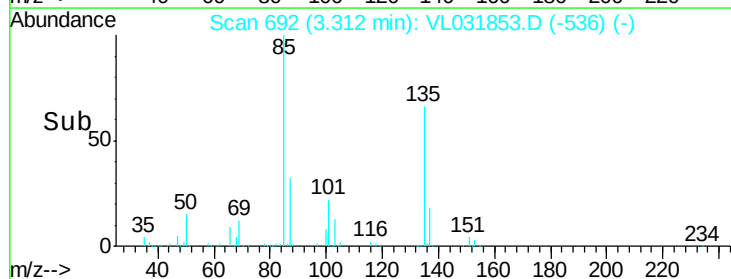
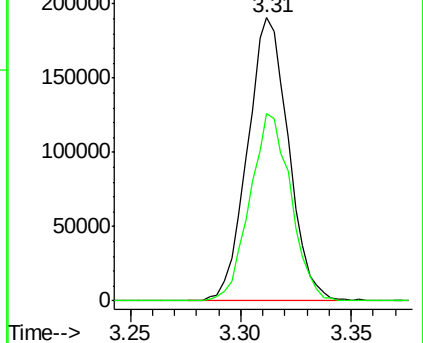
85 100

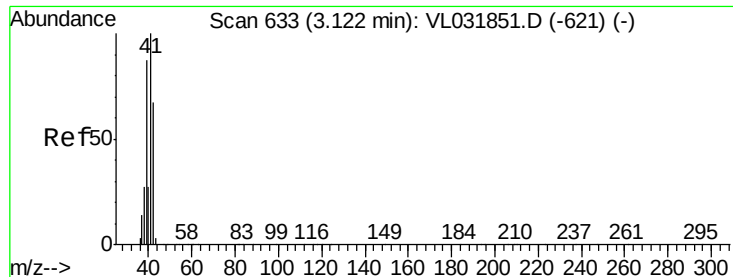
135 65.9 52.6 79.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 0.822 ppbv

RT: 3.13 min Scan# 634

Delta R.T. 0.00 min

Lab File: VL031853.D

Acq: 12 Apr 2018 1:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 41 Resp: 52343

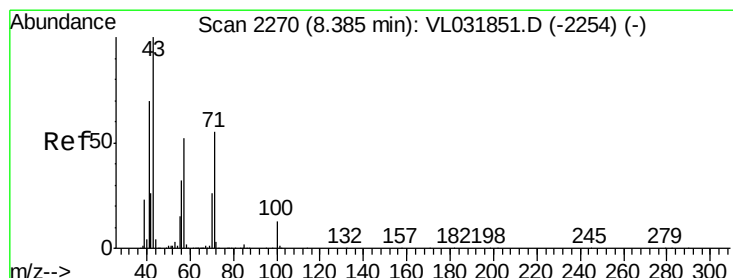
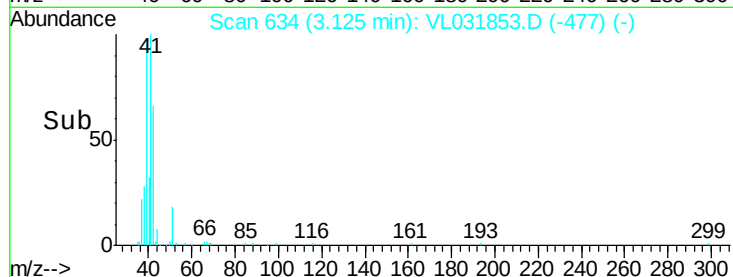
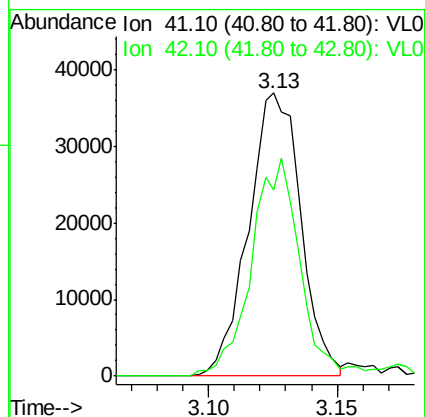
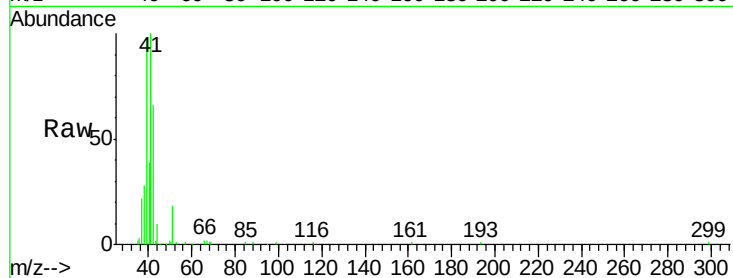
Ion Ratio Lower Upper

41 100

42 73.9 54.3 81.5

Manual Integrations
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#10

Heptane

Concen: 0.908 ppbv

RT: 8.38 min Scan# 2269

Delta R.T. -0.00 min

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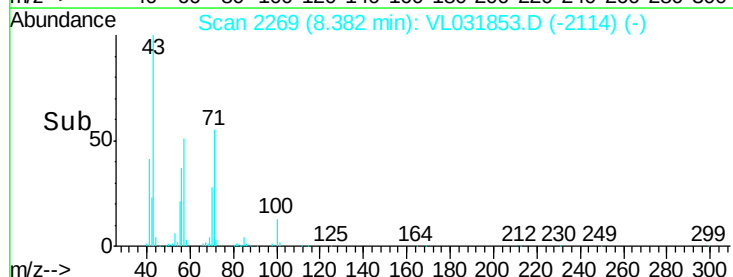
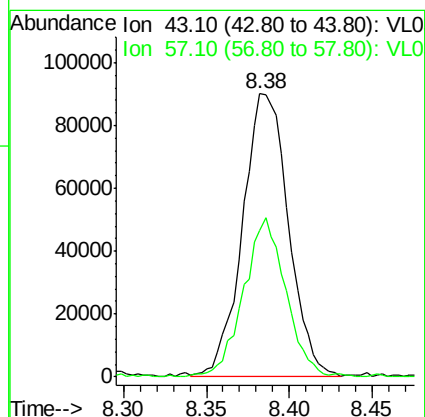
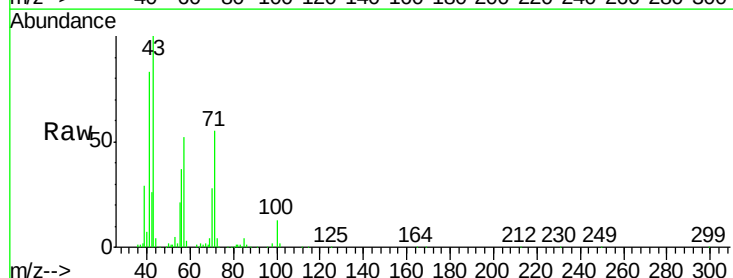
Acq: 12 Apr 2018 1:36

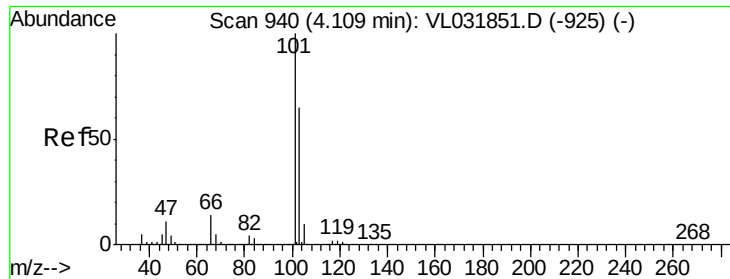
Tgt Ion: 43 Resp: 172470

Ion Ratio Lower Upper

43 100

57 52.3 41.4 62.2





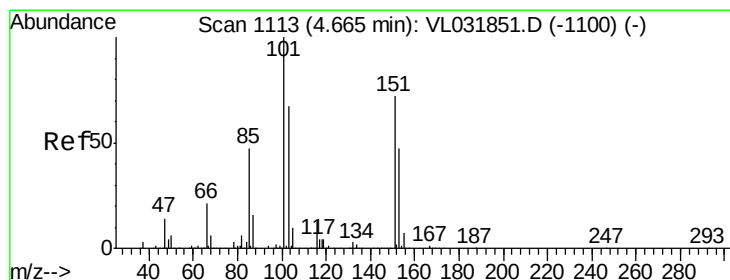
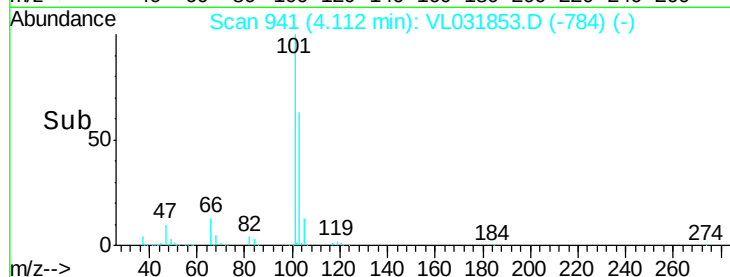
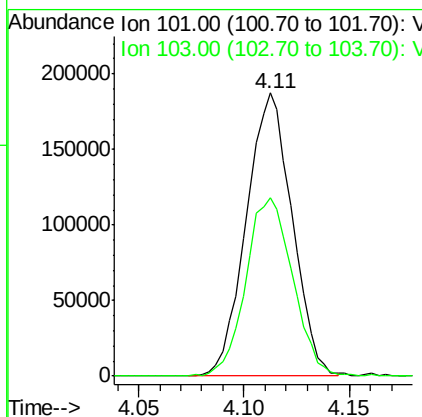
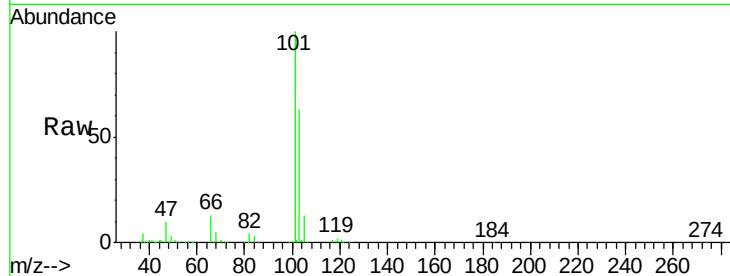
#11
 Trichlorofluoromethane
 Concen: 1.211 ppbv
 RT: 4.11 min Scan# 941
 Delta R.T. 0.00 min
 Lab File: VL031853.D
 Acq: 12 Apr 2018 1:36

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Resp	Lower	Upper
101	100	283112		
103	62.8	51.8	77.6	

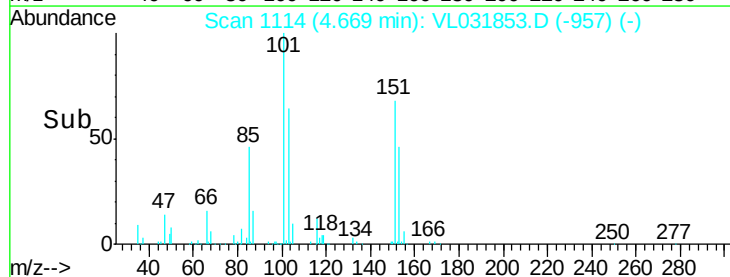
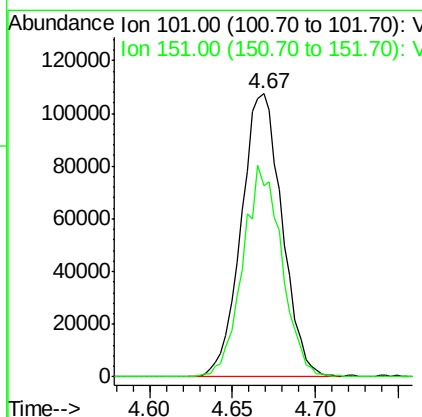
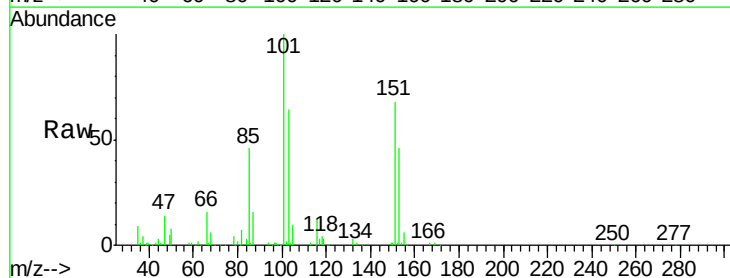
Manual Integrations
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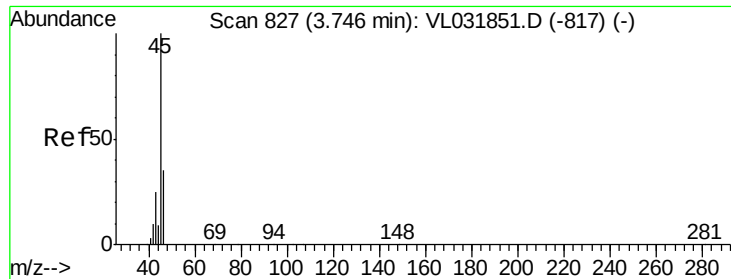
MMDadoda
 4/15/2018 3:06:02 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 1.191 ppbv
 RT: 4.67 min Scan# 1114
 Delta R.T. 0.00 min
 Lab File: VL031853.D
 Acq: 12 Apr 2018 1:36

Tgt Ion	Ratio	Resp	Lower	Upper
101	100	184243		
151	71.1	57.7	86.5	





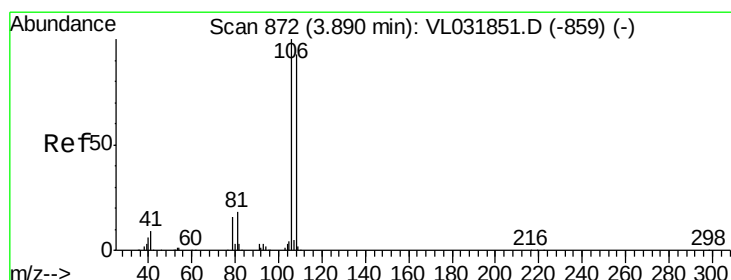
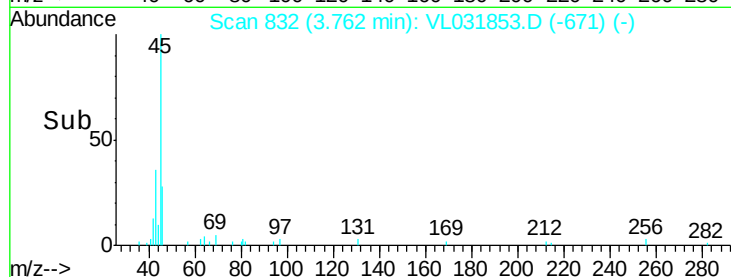
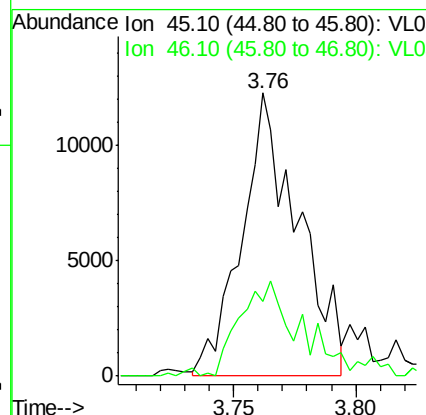
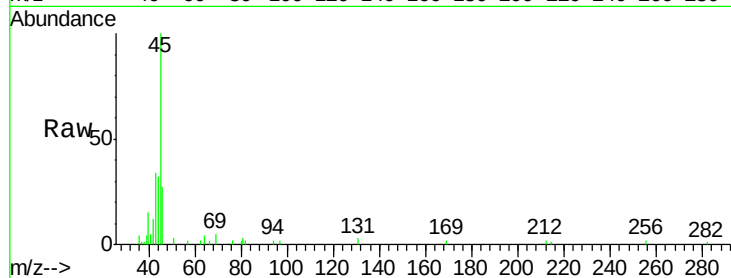
#13
Ethanol
Concen: 0.977 ppbv m
RT: 3.76 min Scan# 832
Delta R.T. 0.02 min
Lab File: VL031853.D
Acq: 12 Apr 2018 1:36

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	45	Resp	19721
Ion Ratio	100	Lower	Upper
46	38.9	14.6	58.4

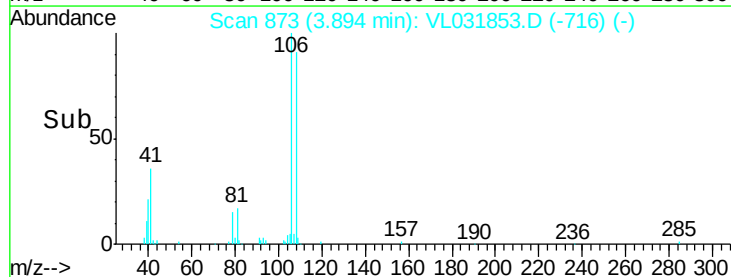
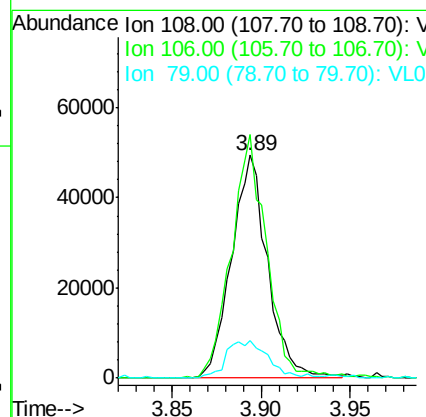
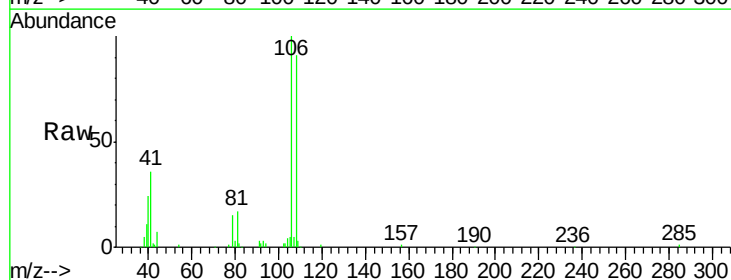
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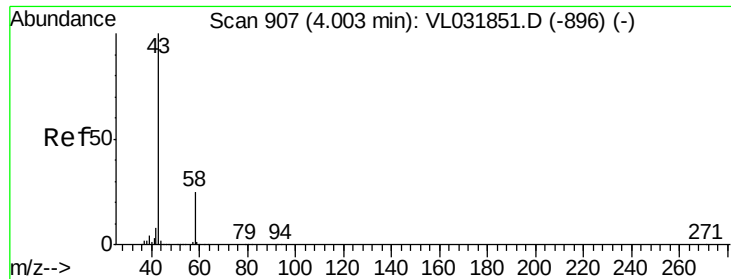
MMDadoda
4/15/2018 3:06:02 PM



#14
Bromoethene
Concen: 1.102 ppbv
RT: 3.89 min Scan# 873
Delta R.T. 0.00 min
Lab File: VL031853.D
Acq: 12 Apr 2018 1:36

Tgt Ion	108	Resp	69432
Ion Ratio	100	Lower	Upper
106	107.8	86.9	130.3
79	19.6	15.5	23.3





#15

Acetone

Concen: 1.096 ppbv

RT: 4.02 min Scan# 911

Delta R.T. 0.01 min

Lab File: VL031853.D

Acq: 12 Apr 2018 1:36

Tot Ion: 43 Resp: 230228

Ion Ratio Lower Upper

43 100

58 25.5 20.7 31.1

Instrument :

MSVOA_L

ClientSampleId :

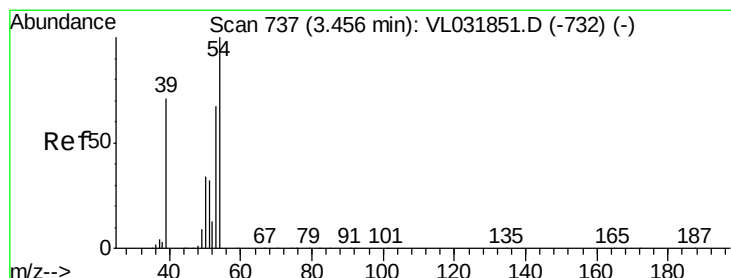
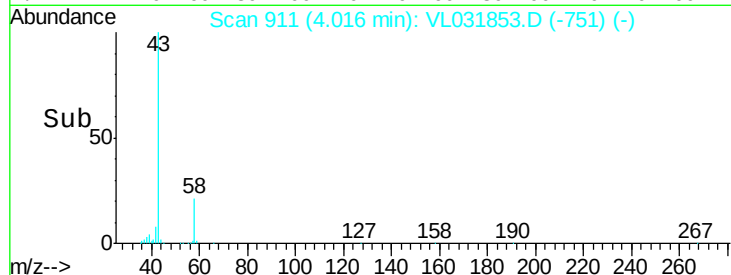
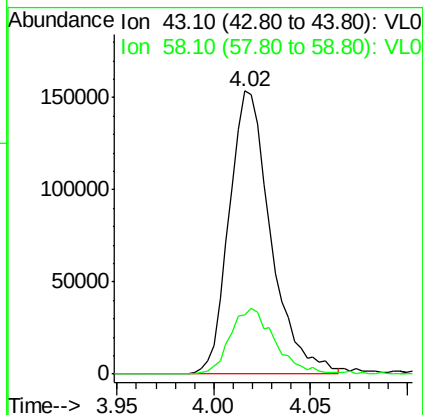
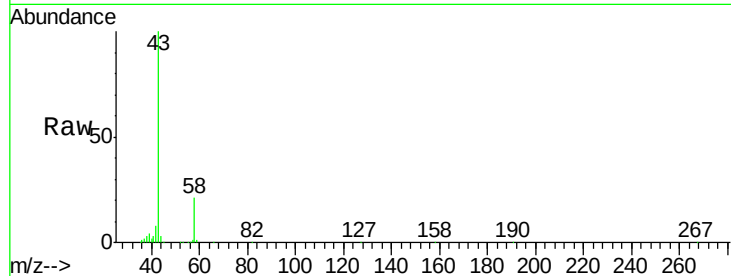
VSTDIC001

Manual Integrations

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MMDadoda

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#16

1,3-Butadiene

Concen: 1.092 ppbv

RT: 3.46 min Scan# 738

Delta R.T. 0.00 min

Lab File: VL031853.D

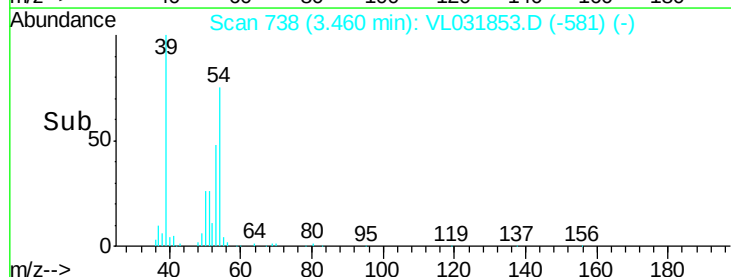
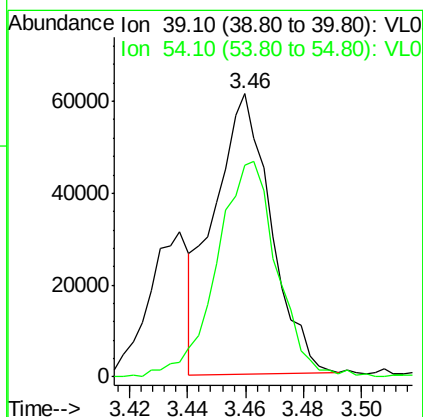
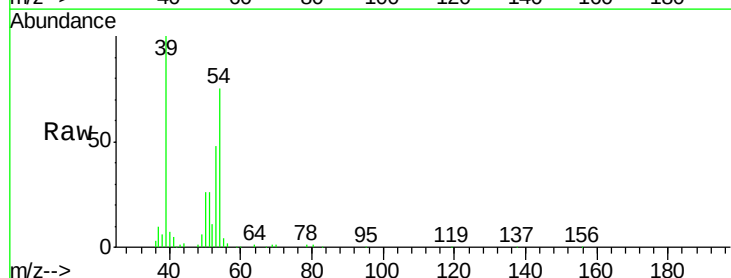
Acq: 12 Apr 2018 1:36

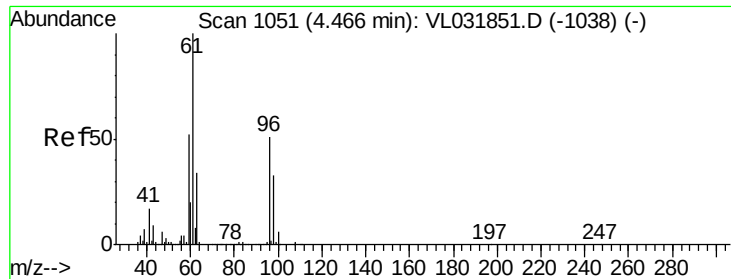
Tgt Ion: 39 Resp: 82888

Ion Ratio Lower Upper

39 100

54 81.7 67.5 101.3





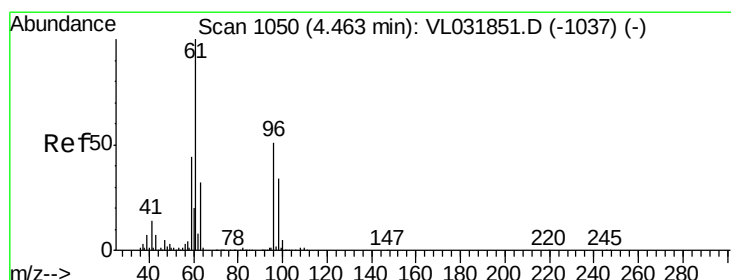
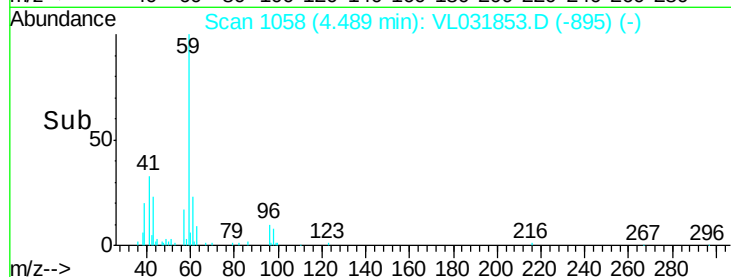
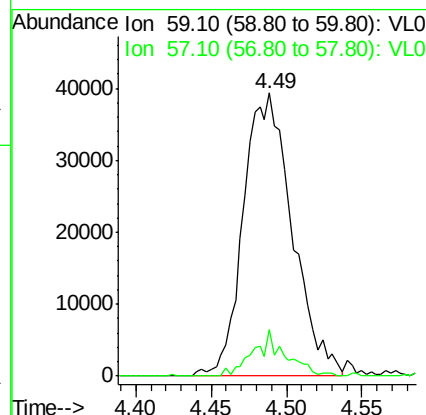
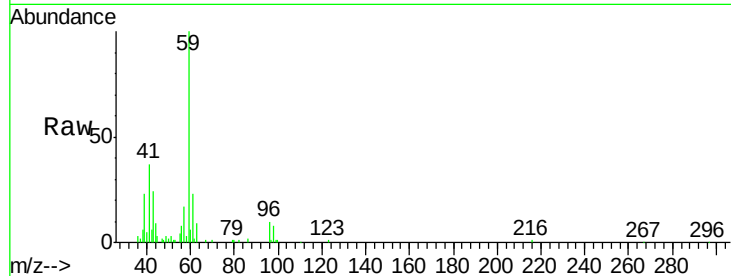
#17
 tert-Butyl alcohol
 Concen: 0.929 ppbv m
 RT: 4.49 min Scan# 1058
 Delta R.T. 0.02 min
 Lab File: VL031853.D
 Acq: 12 Apr 2018 1:36

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion: 59 Resp: 88511
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.3 12.5#

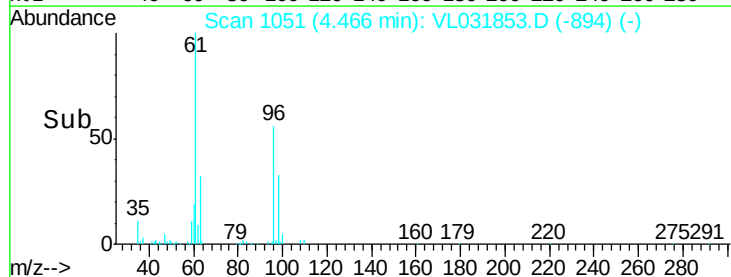
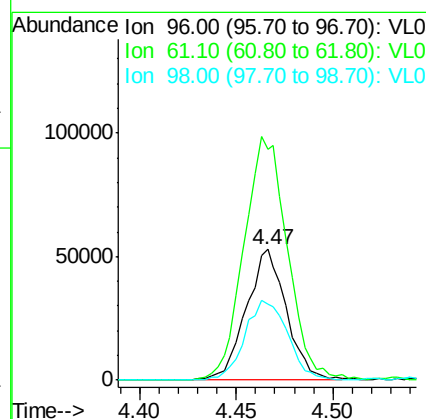
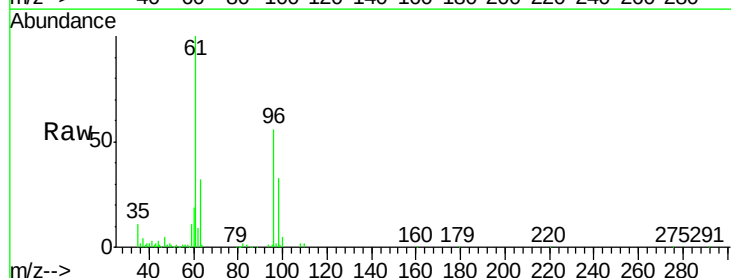
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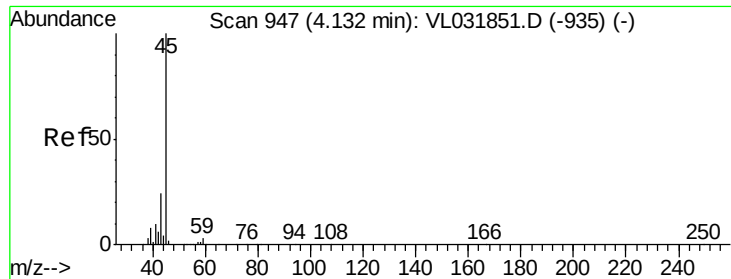
MMDadoda
 4/15/2018 3:06:02 PM



#18
 1,1-Dichloroethene
 Concen: 1.092 ppbv
 RT: 4.47 min Scan# 1051
 Delta R.T. 0.00 min
 Lab File: VL031853.D
 Acq: 12 Apr 2018 1:36

Tgt Ion: 96 Resp: 76291
 Ion Ratio Lower Upper
 96 100
 61 177.0 157.2 235.8
 98 58.2 53.0 79.4





#19

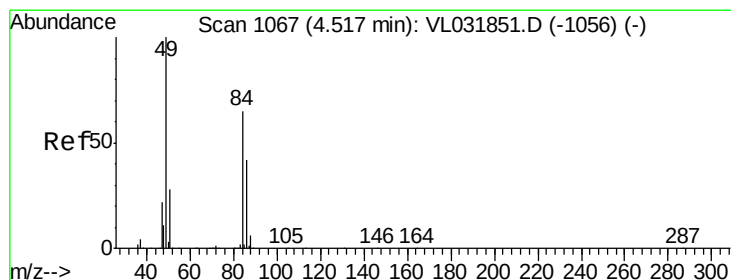
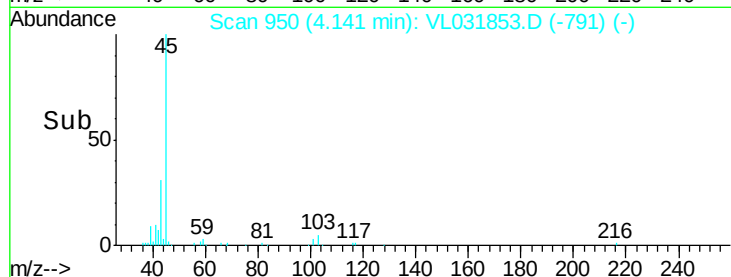
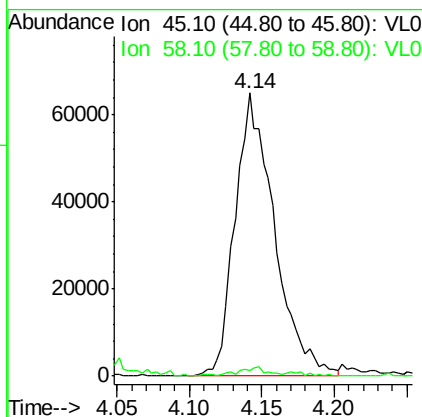
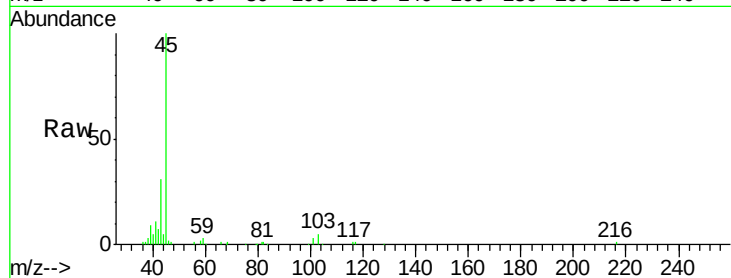
Isopropyl Alcohol
 Concen: 1.068 ppbv
 RT: 4.14 min Scan# 950
 Delta R.T. 0.01 min
 Lab File: VL031853.D
 Acq: 12 Apr 2018 1:36

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	45	Resp	122277
Ion Ratio	100	Lower	Upper
45	100		
58	3.2	1.4	2.0#

Manual Integrations
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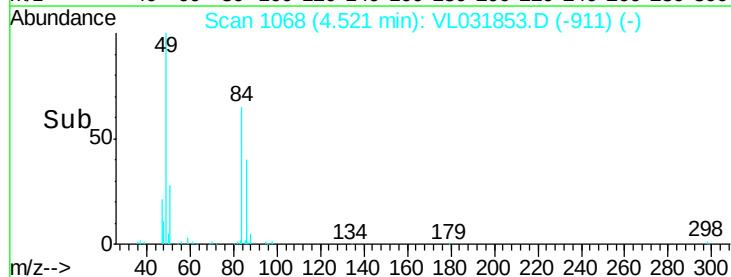
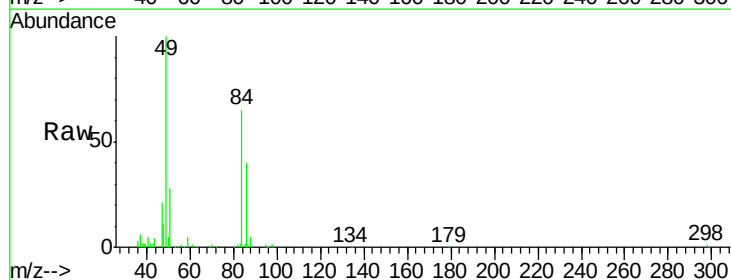
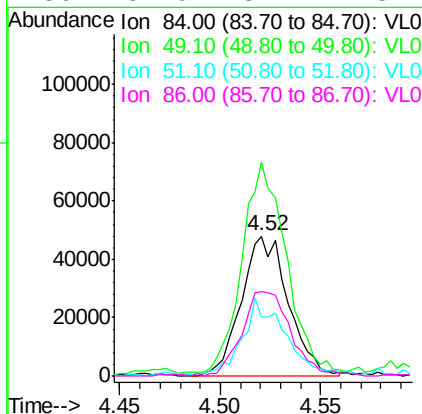
MMDadoda
 4/15/2018 3:06:02 PM

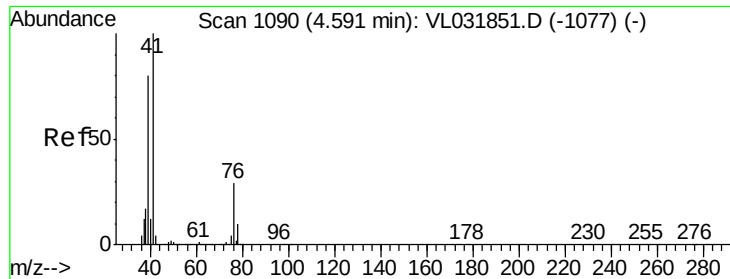


#20

Methylene Chloride
 Concen: 1.099 ppbv m
 RT: 4.52 min Scan# 1068
 Delta R.T. 0.00 min
 Lab File: VL031853.D
 Acq: 12 Apr 2018 1:36

Tgt Ion	84	Resp	76940
Ion Ratio	100	Lower	Upper
84	100		
49	153.0	123.3	184.9
51	42.4	35.0	52.6
86	61.0	52.2	78.2





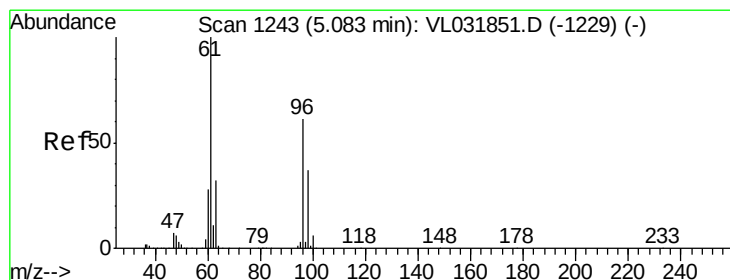
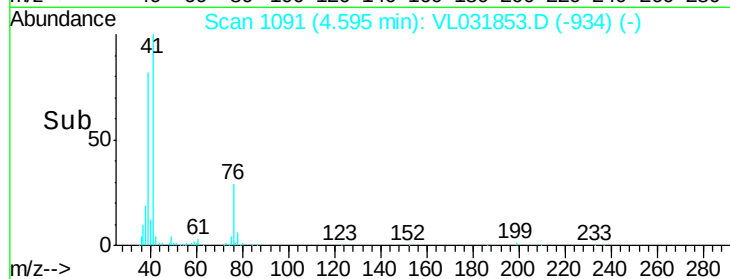
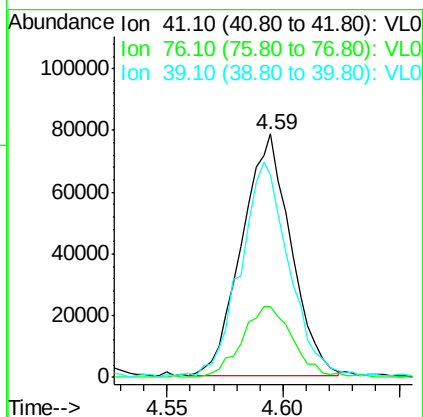
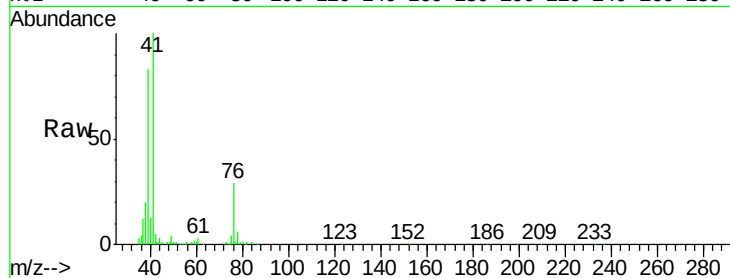
#21
Allvl Chloride
Concen: 1.030 ppbv
RT: 4.59 min Scan# 1091
Delta R.T. 0.00 min
Lab File: VL031853.D
Acq: 12 Apr 2018 1:36

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Resp	Lower	Upper
41	100	115411		
76	30.8	23.4	35.0	
39	87.8	65.4	98.2	

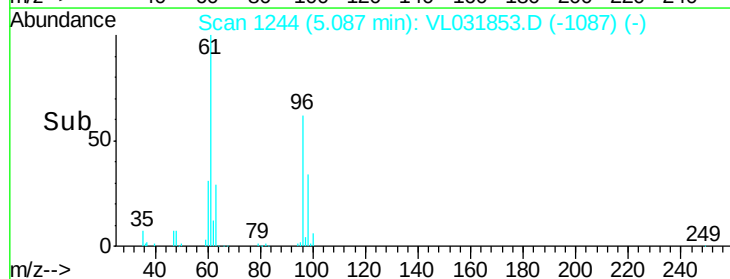
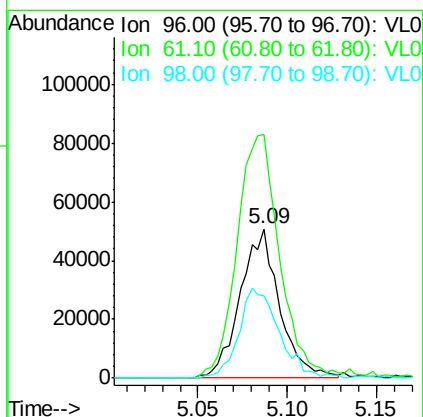
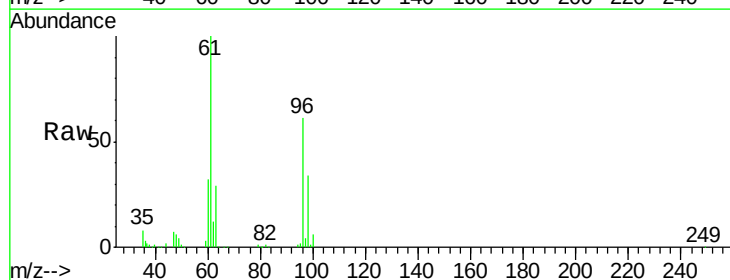
Manual Integrations
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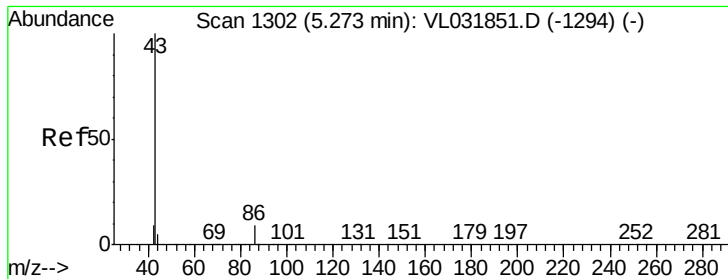
MMDadoda
4/15/2018 3:06:02 PM



#22
trans-1,2-Dichloroethene
Concen: 1.050 ppbv
RT: 5.09 min Scan# 1244
Delta R.T. 0.00 min
Lab File: VL031853.D
Acq: 12 Apr 2018 1:36

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	78398		
61	162.9	130.2	195.2	
98	55.2	48.2	72.2	





#23

Vinyl Acetate

Concen: 0.914 ppbv

RT: 5.28 min Scan# 1303

Delta R.T. 0.00 min

Lab File: VL031853.D

Acq: 12 Apr 2018 1:36

Instrument :

MSVOA_L

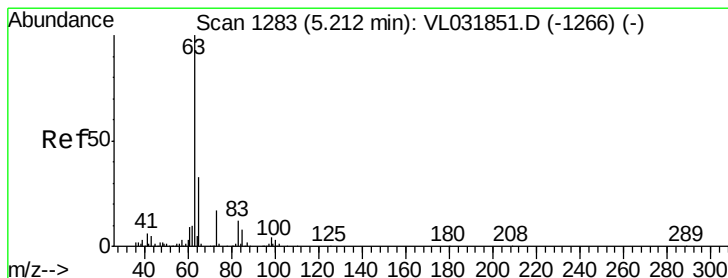
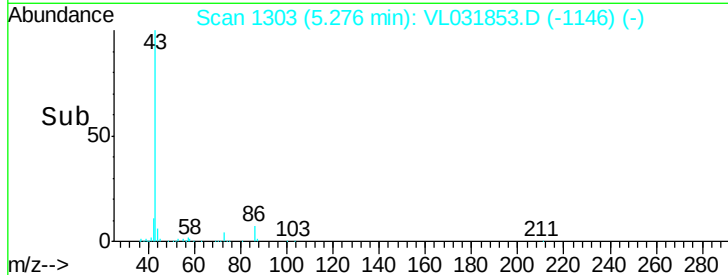
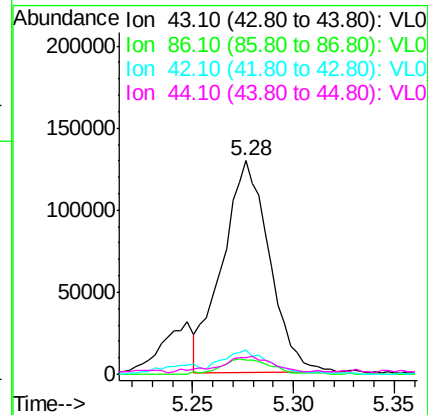
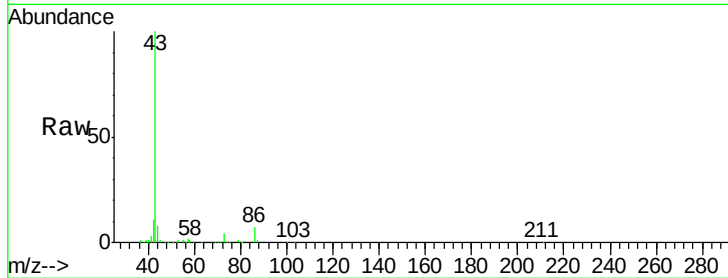
ClientSampleId :

VSTDIC001

Tot Ion	Ratio	Resp	Lower	Upper
43	100	209536		
86	6.6		6.4	9.6
42	11.1		8.2	12.2
44	6.4		4.1	6.1

Manual Integrations
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4/15/2018 3:06:02 PM



#24

1,1-Dichloroethane

Concen: 1.076 ppbv

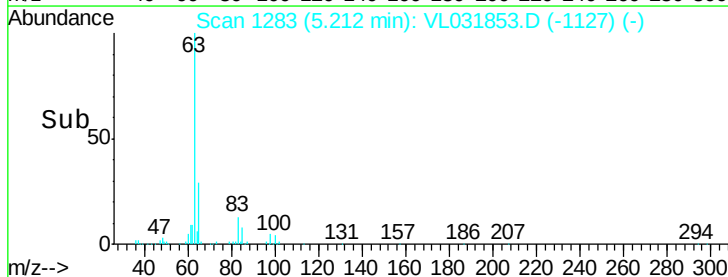
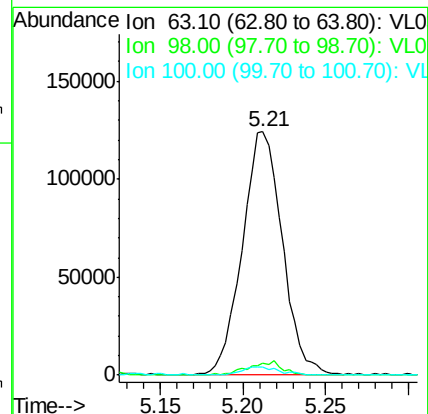
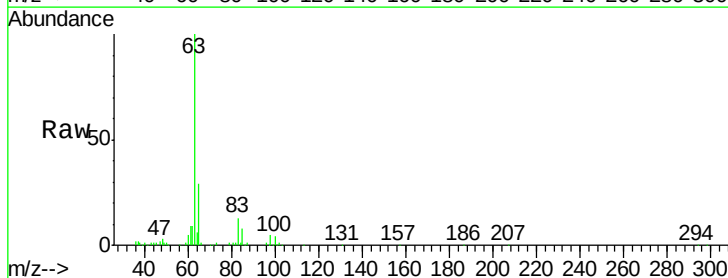
RT: 5.21 min Scan# 1283

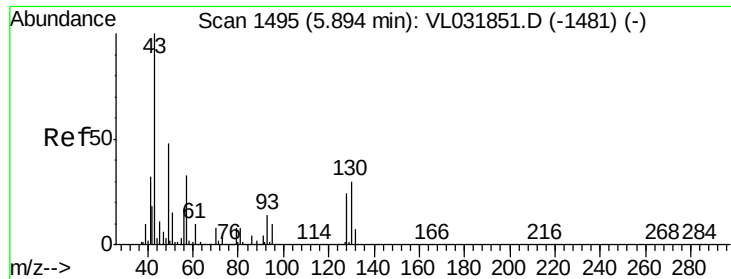
Delta R.T. 0.00 min

Lab File: VL031853.D

Acq: 12 Apr 2018 1:36

Tgt Ion	Ratio	Resp	Lower	Upper
63	100	208998		
98	4.8		2.2	6.6
100	3.5		1.7	5.0





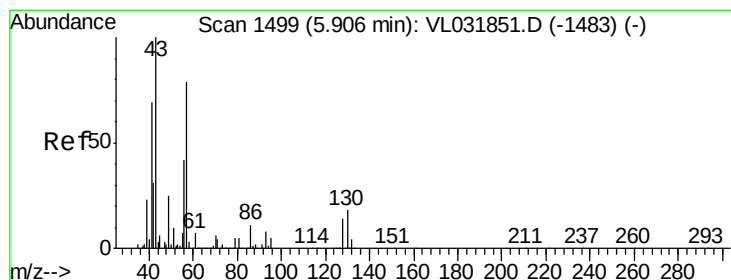
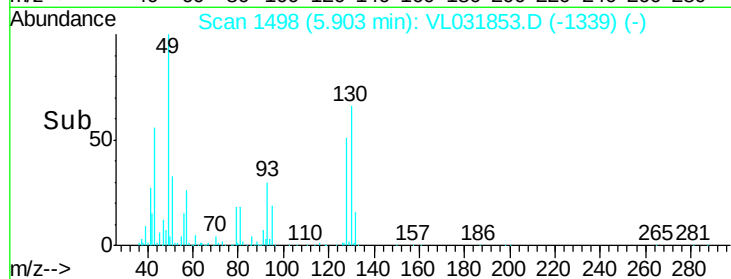
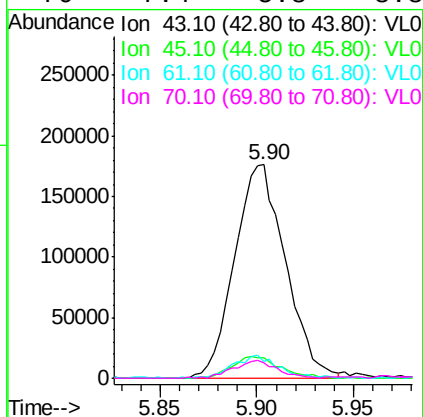
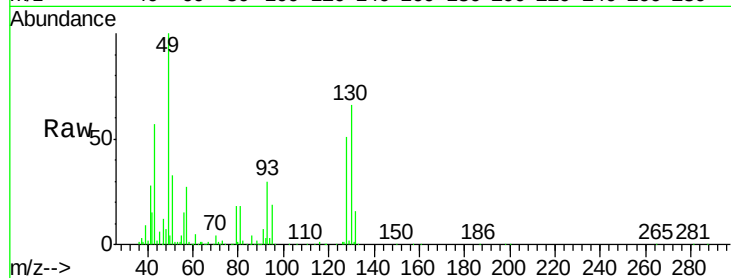
#25
Ethyl Acetate
Concen: 0.990 ppbv
RT: 5.90 min Scan# 1498
Delta R.T. 0.01 min
Lab File: VL031853.D
Acq: 12 Apr 2018 1:36

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
43	100		
45	9.9	7.8	11.8
61	9.6	7.5	11.3
70	7.4	5.8	8.8

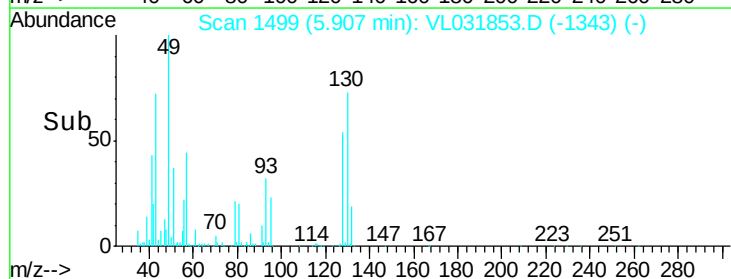
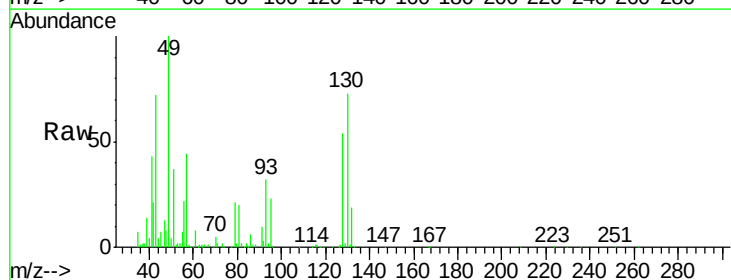
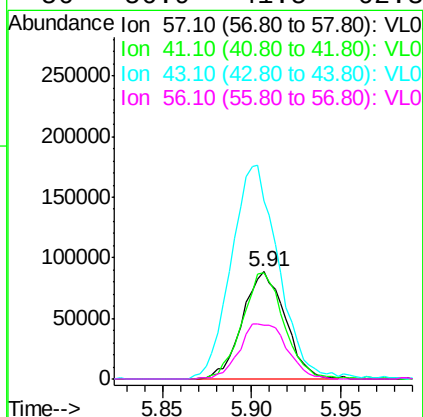
Manual Integrations
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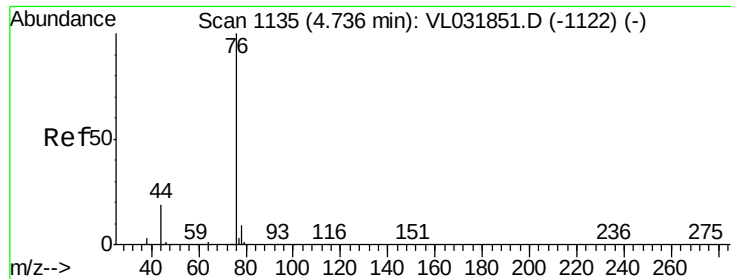
MMDadoda
4/15/2018 3:06:02 PM



#26
Hexane
Concen: 1.000 ppbv
RT: 5.91 min Scan# 1499
Delta R.T. 0.00 min
Lab File: VL031853.D
Acq: 12 Apr 2018 1:36

Tgt Ion	Ratio	Lower	Upper
57	100		
41	97.5	71.7	107.5
43	220.4	172.0	258.0
56	56.9	41.5	62.3





#27

Carbon Disulfide

Concen: 1.154 ppbv

RT: 4.74 min Scan# 1137

Delta R.T. 0.01 min

Lab File: VL031853.D

Acq: 12 Apr 2018 1:36

Instrument :

MSVOA_L

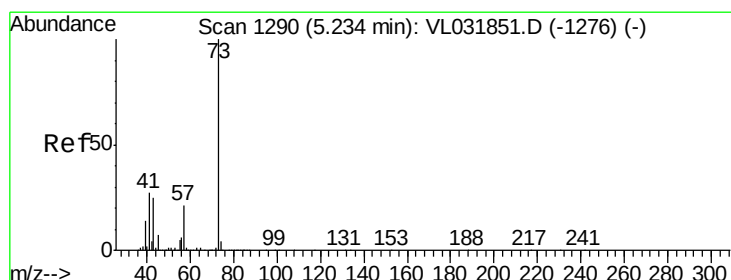
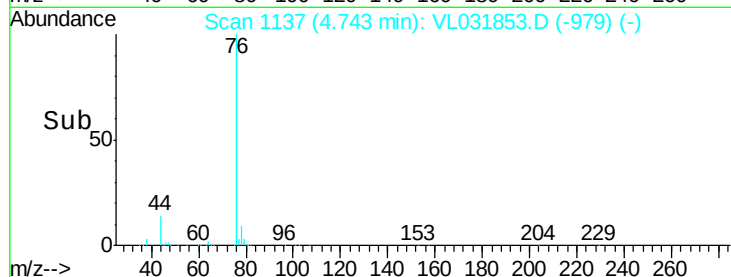
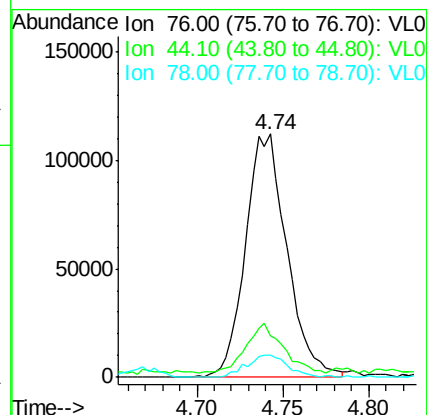
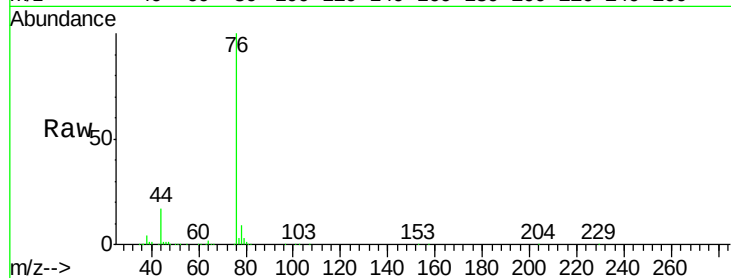
ClientSampleId :

VSTDIC001

Tot Ion:	76	Resp:	187724
Ion Ratio	Lower	Upper	
76	100		
44	17.7	14.8	22.2
78	9.4	7.4	11.2

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#28

Methyl tert-Butyl Ether

Concen: 0.895 ppbv

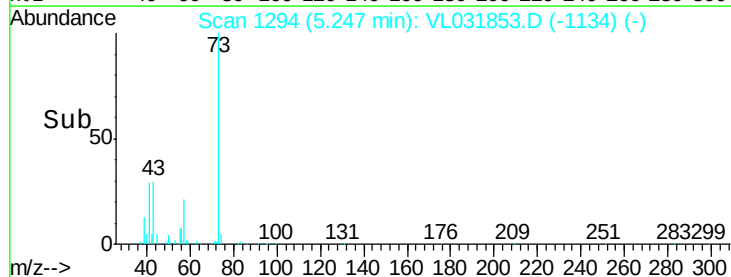
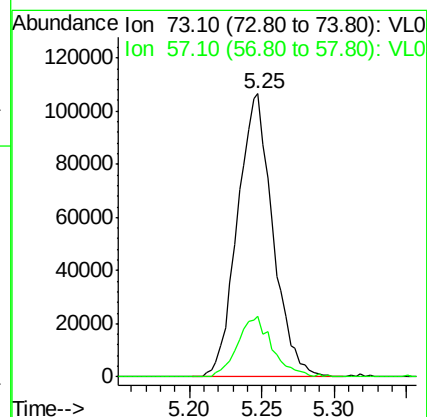
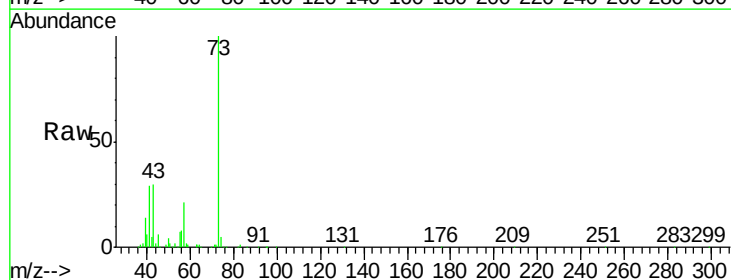
RT: 5.25 min Scan# 1294

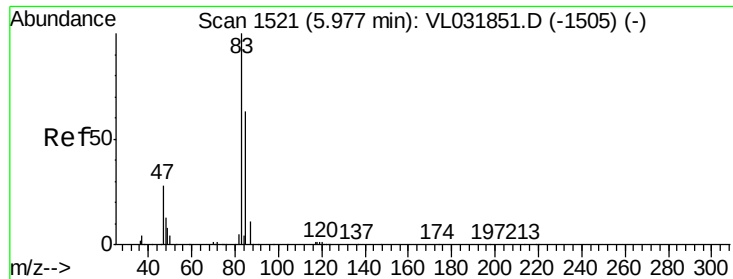
Delta R.T. 0.01 min

Lab File: VL031853.D

Acq: 12 Apr 2018 1:36

Tgt Ion:	73	Resp:	180306
Ion Ratio	Lower	Upper	
73	100		
57	21.1	17.3	25.9





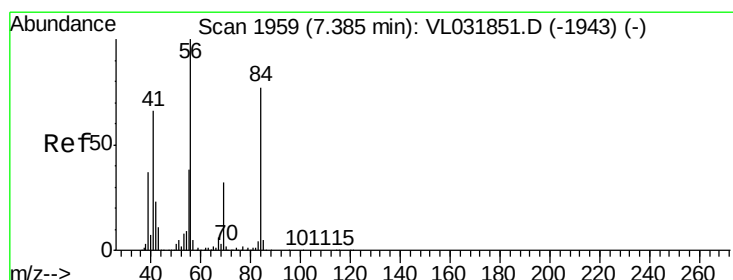
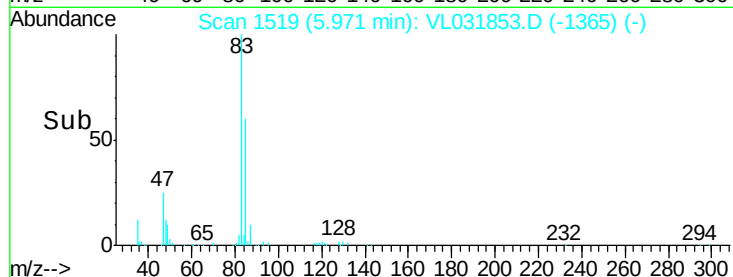
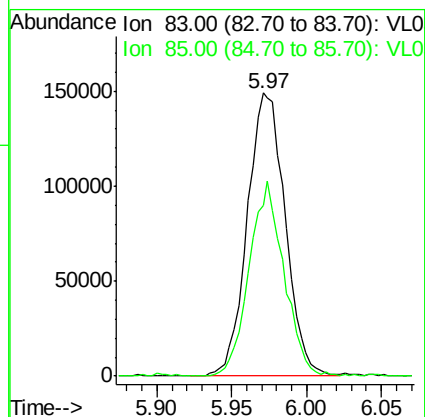
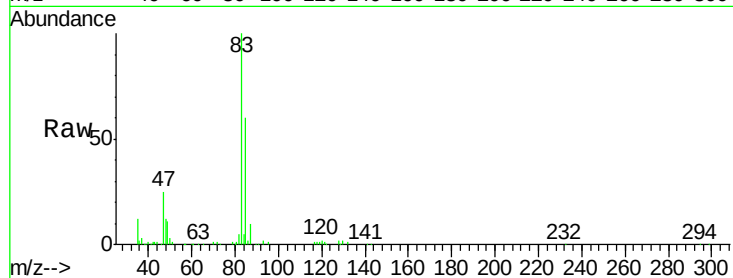
#29
Chloroform
Concen: 1.108 ppbv
RT: 5.97 min Scan# 1519
Delta R.T. -0.01 min
Lab File: VL031853.D
Acq: 12 Apr 2018 1:36

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	83	Resp	262805
Ion Ratio	100	Lower	Upper
83	100		
85	60.5	50.4	75.6

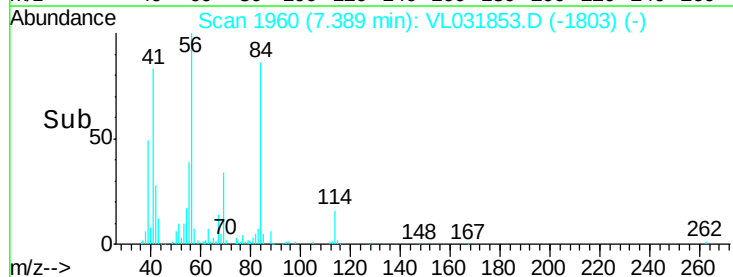
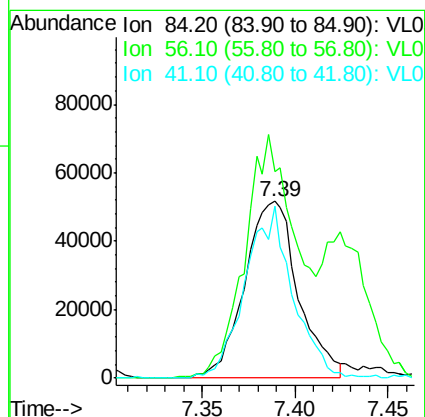
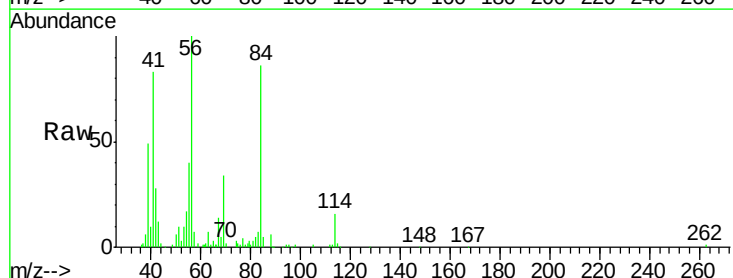
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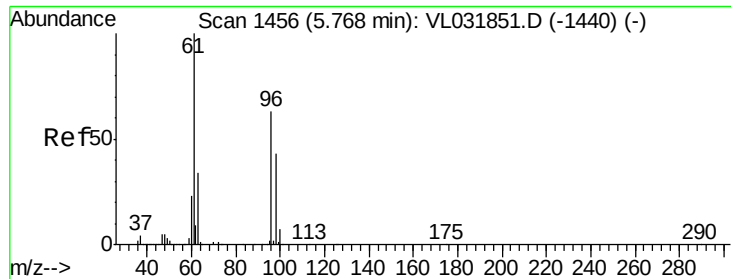
MMDadoda
4/15/2018 3:06:02 PM



#30
Cyclohexane
Concen: 0.877 ppbv
RT: 7.39 min Scan# 1960
Delta R.T. 0.00 min
Lab File: VL031853.D
Acq: 12 Apr 2018 1:36

Tgt Ion	84	Resp	104257
Ion Ratio	100	Lower	Upper
84	100		
56	131.2	108.6	162.8
41	86.6	67.8	101.8





#31

cis-1,2-Dichloroethene

Concen: 0.967 ppbv

RT: 5.77 min Scan# 1455

Delta R.T. -0.00 min

Lab File: VL031853.D

Acq: 12 Apr 2018 1:36

Instrument :

MSVOA_L

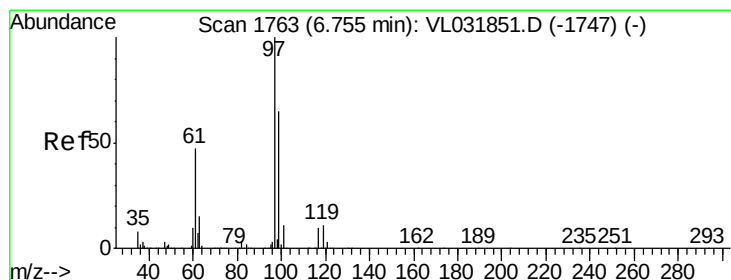
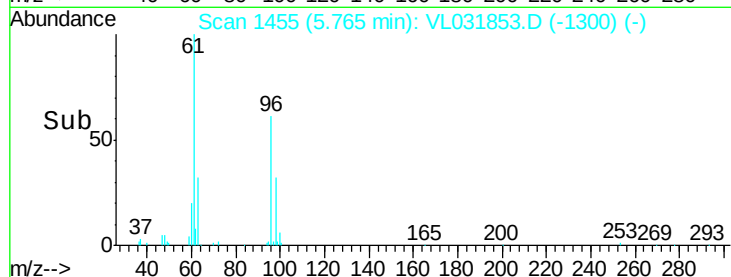
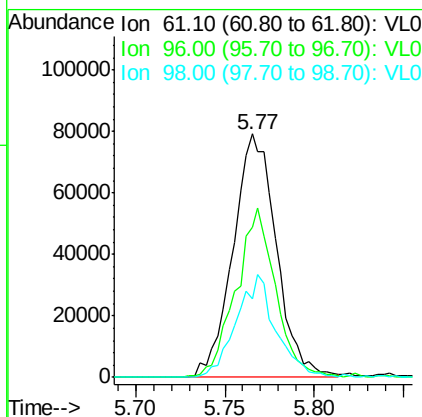
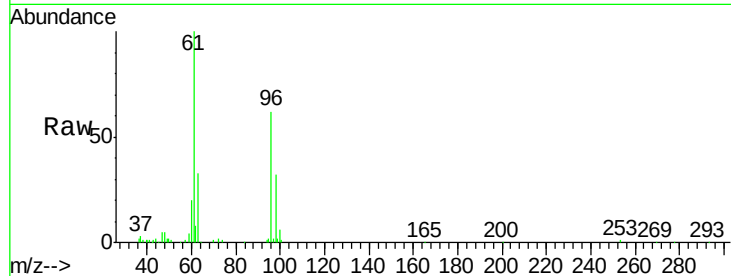
ClientSampleId :

VSTDIC001

Tot Ion:	61	Resp:	133851
Ion Ratio	Lower	Upper	
61	100		
96	61.4	50.4	75.6
98	32.2	34.1	51.1#

Manual Integrations
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4/15/2018 3:06:02 PM



#32

1,1,1-Trichloroethane

Concen: 0.996 ppbv

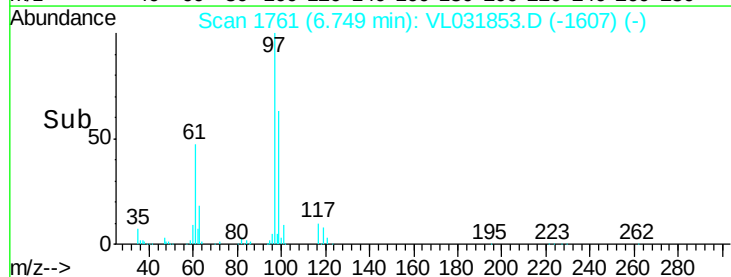
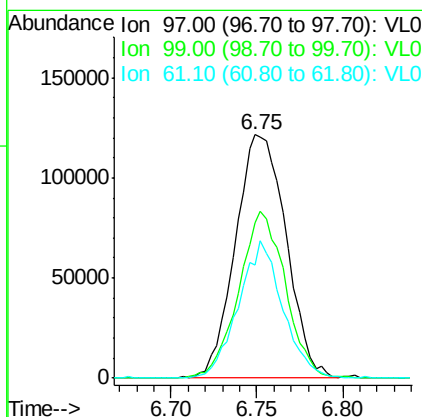
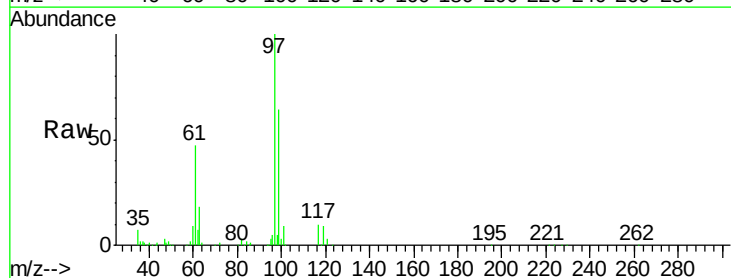
RT: 6.75 min Scan# 1761

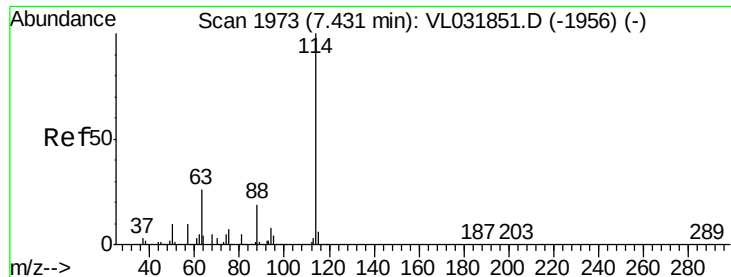
Delta R.T. -0.01 min

Lab File: VL031853.D

Acq: 12 Apr 2018 1:36

Tgt Ion:	97	Resp:	247724
Ion Ratio	Lower	Upper	
97	100		
99	63.2	51.5	77.3
61	49.3	39.0	58.4





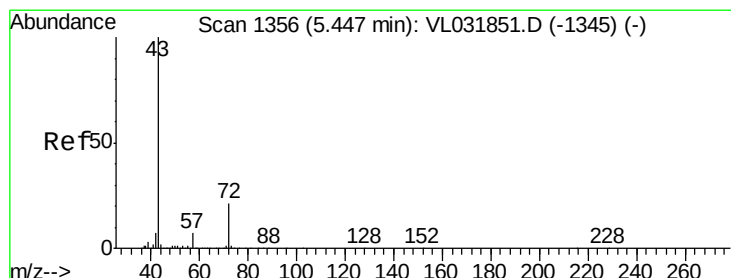
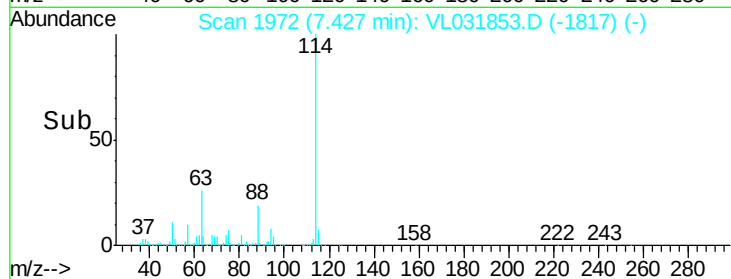
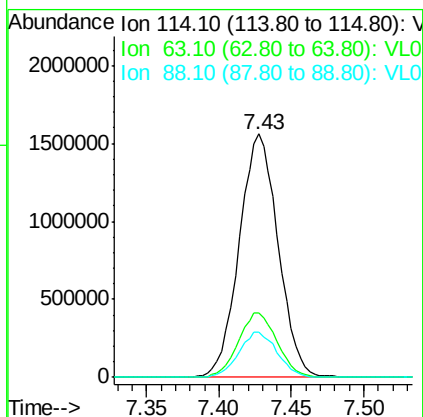
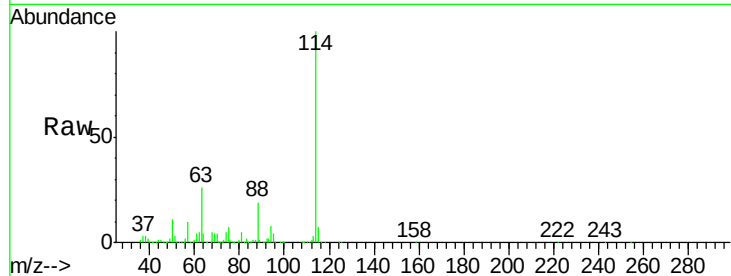
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.43 min Scan# 1972
 Delta R.T. -0.00 min
 Lab File: VL031853.D
 Acq: 12 Apr 2018 1:36

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
114	100		
63	26.7	21.4	32.2
88	18.6	14.7	22.1

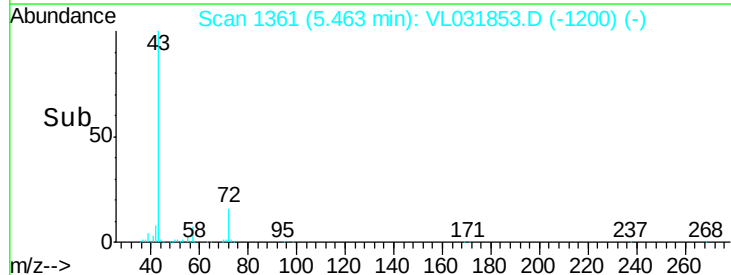
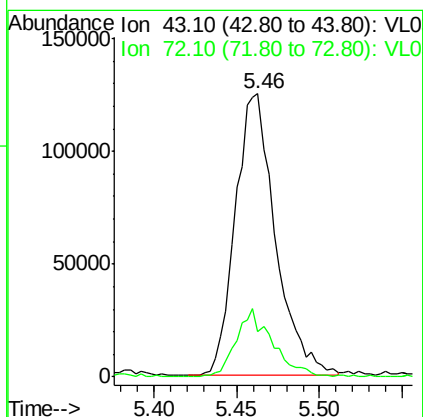
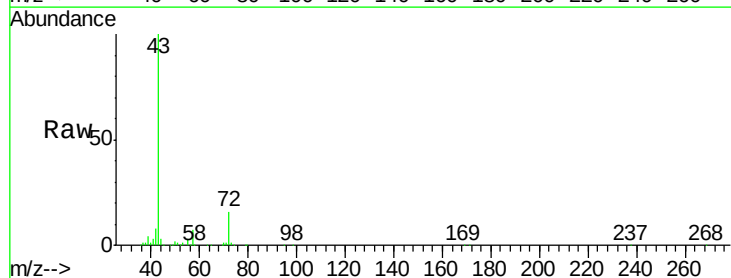
Manual Integrations
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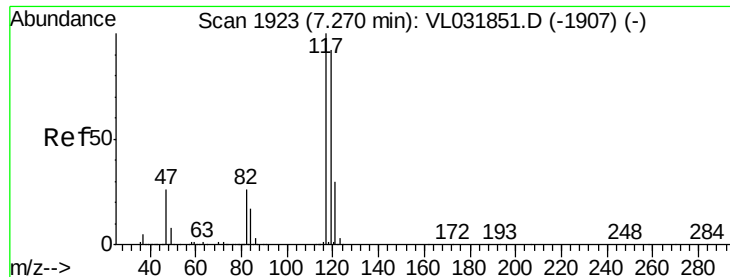
MMDadoda
 4/15/2018 3:06:02 PM



#34
 2-Butanone
 Concen: 1.058 ppbv
 RT: 5.46 min Scan# 1361
 Delta R.T. 0.02 min
 Lab File: VL031853.D
 Acq: 12 Apr 2018 1:36

Tgt Ion	Ratio	Lower	Upper
43	100		
72	22.1	18.6	28.0





#35

Carbon Tetrachloride

Concen: 1.173 ppbv

RT: 7.27 min Scan# 1924

Delta R.T. 0.00 min

Lab File: VL031853.D

Acq: 12 Apr 2018 1:36

Instrument :

MSVOA_L

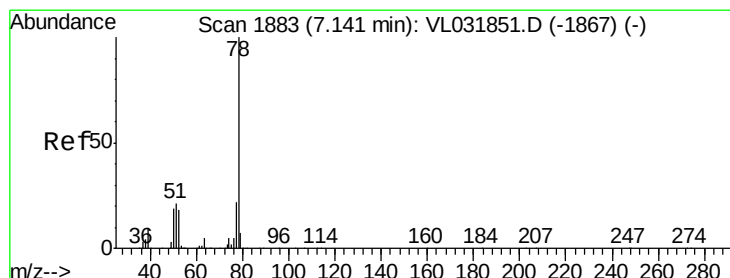
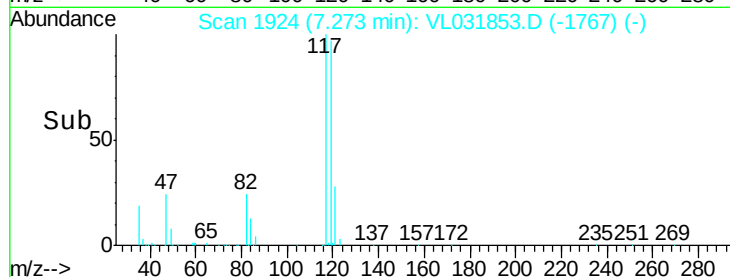
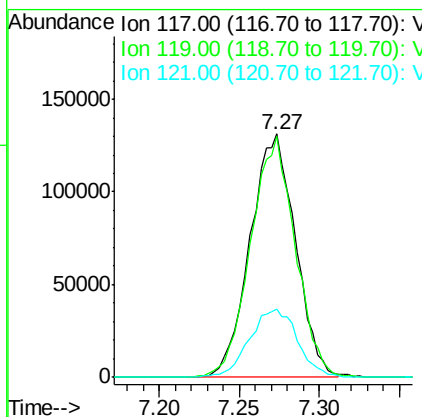
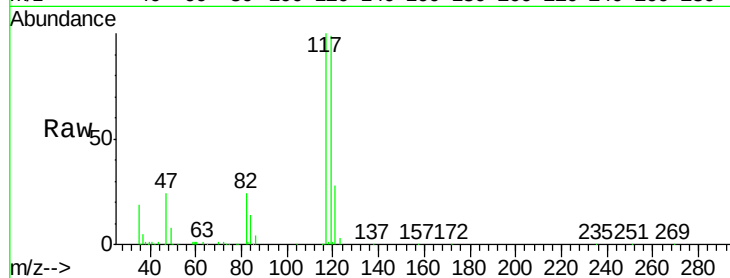
ClientSampleId :

VSTDIC001

Tot Ion:	117	Resp:	255175
Ion Ratio		Lower	Upper
117	100		
119	99.1	73.4	110.0
121	28.1	24.2	36.4

Manual Integrations
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4/15/2018 3:06:02 PM



#36

Benzene

Concen: 1.010 ppbv

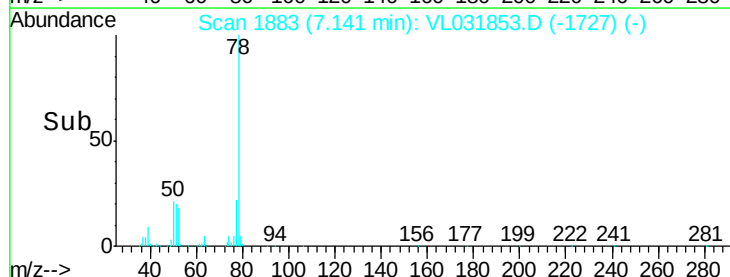
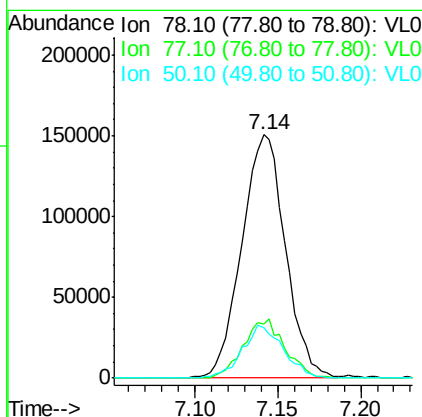
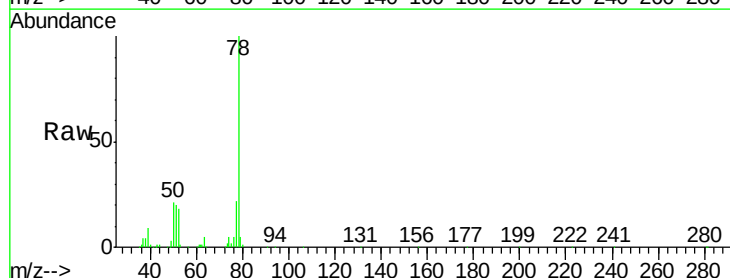
RT: 7.14 min Scan# 1883

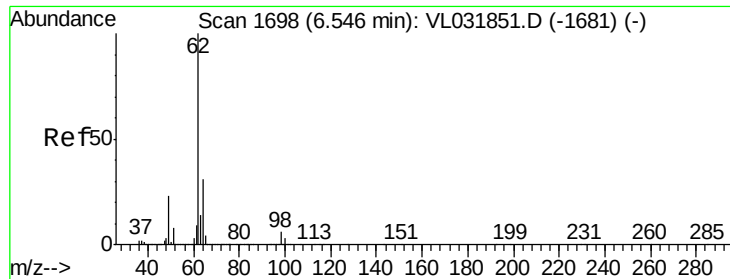
Delta R.T. 0.00 min

Lab File: VL031853.D

Acq: 12 Apr 2018 1:36

Tgt Ion:	78	Resp:	276255
Ion Ratio		Lower	Upper
78	100		
77	22.2	17.8	26.8
50	20.9	15.0	22.6





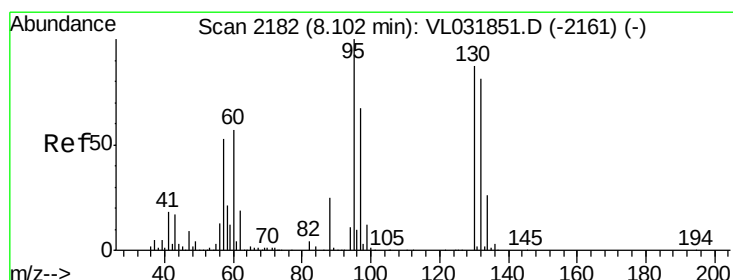
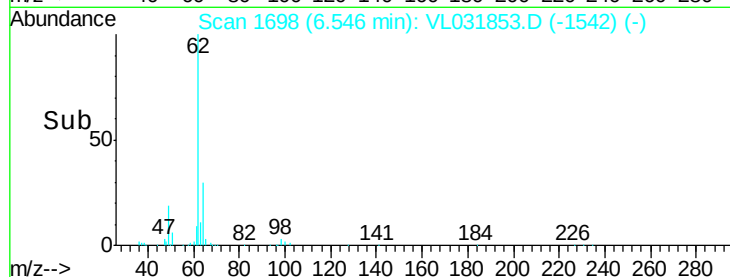
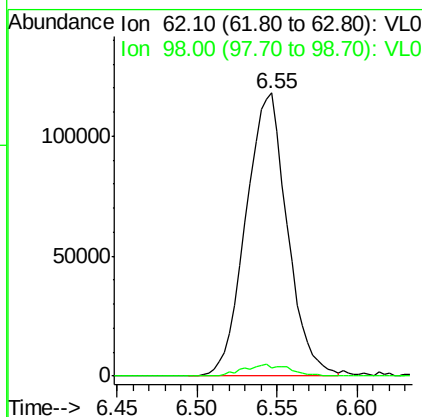
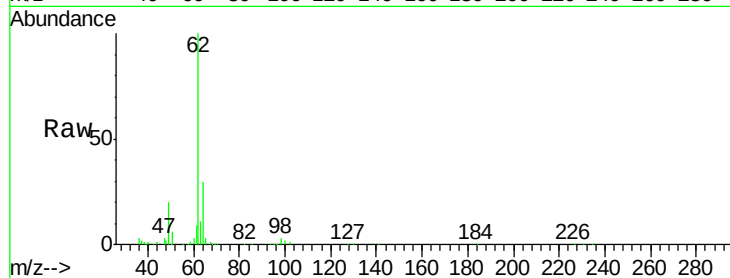
#37
 1,2-Dichloroethane
 Concen: 1.148 ppbv
 RT: 6.55 min Scan# 1698
 Delta R.T. 0.00 min
 Lab File: VL031853.D
 Acq: 12 Apr 2018 1:36

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Resp	Lower	Upper
62	100	209299		
98	4.6		4.5	6.7

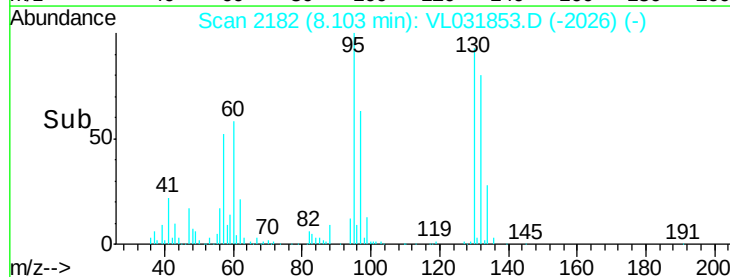
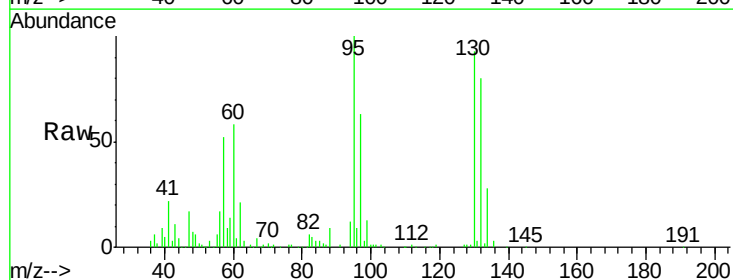
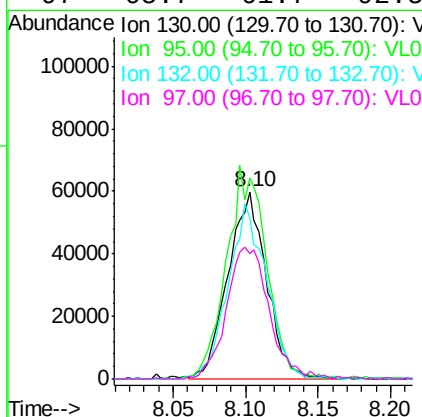
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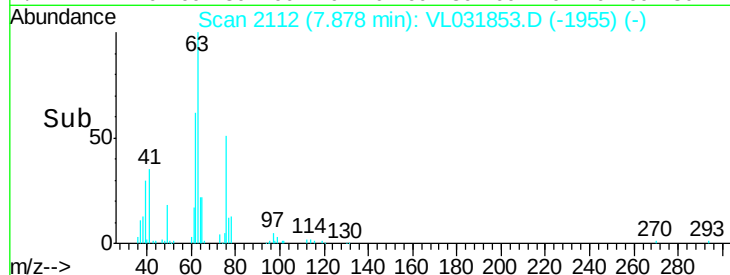
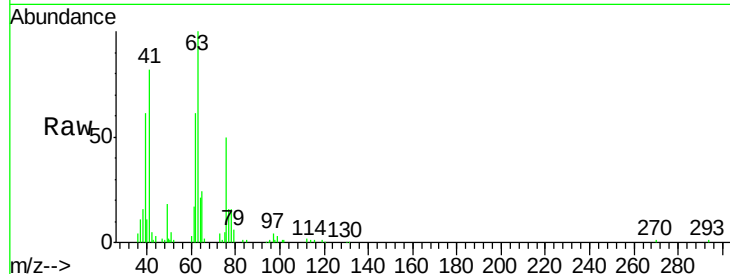
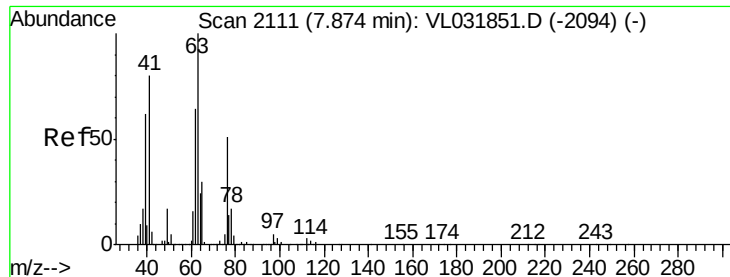
MMDadoda
 4/15/2018 3:06:02 PM



#38
 Trichloroethene
 Concen: 0.996 ppbv
 RT: 8.10 min Scan# 2182
 Delta R.T. 0.00 min
 Lab File: VL031853.D
 Acq: 12 Apr 2018 1:36

Tgt Ion	Ratio	Resp	Lower	Upper
130	100	110284		
95	106.0		92.1	138.1
132	85.8		74.8	112.2
97	65.7		61.7	92.5





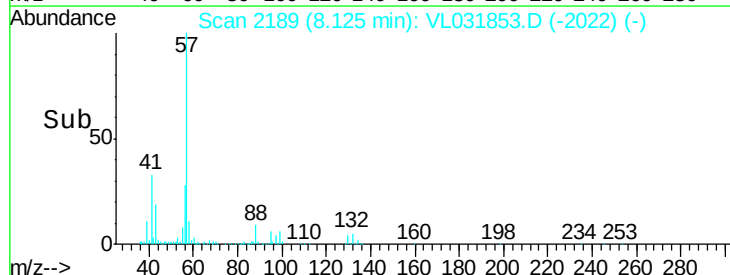
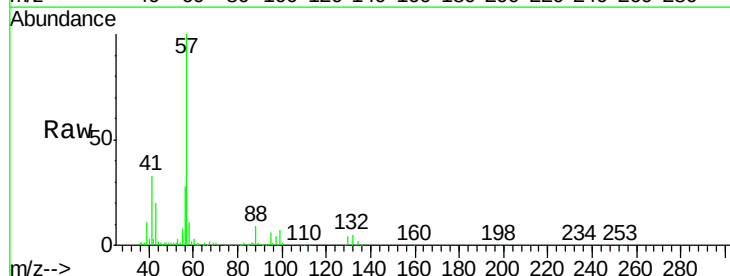
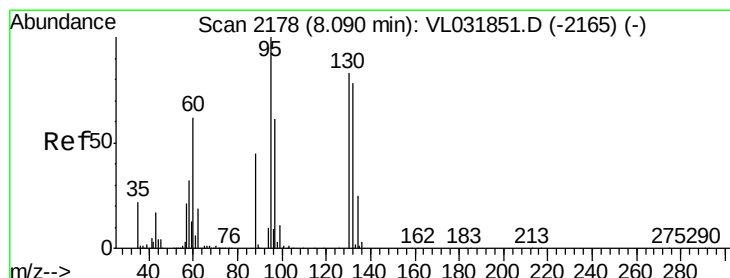
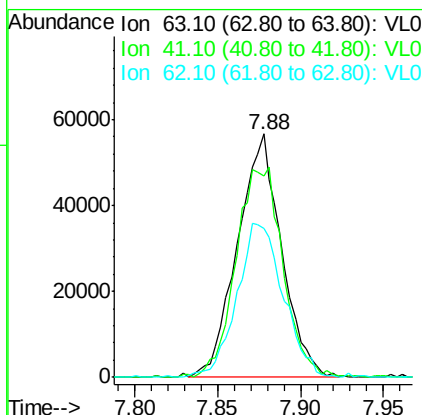
#39
 1,2-Dichloropropane
 Concen: 1.048 ppbv
 RT: 7.88 min Scan# 2112
 Delta R.T. 0.00 min
 Lab File: VL031853.D
 Acq: 12 Apr 2018 1:36

Tot Ion	Ratio	Resp	Lower	Upper
63	100	103549		
41	82.1		64.1	96.1
62	60.3		51.5	77.3

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

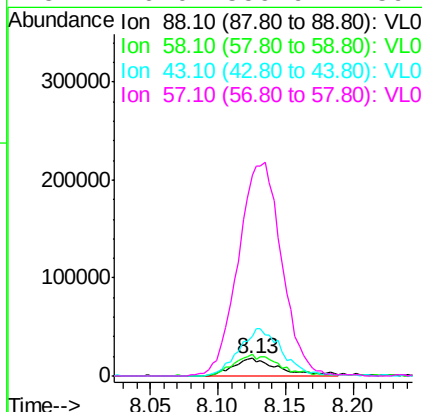
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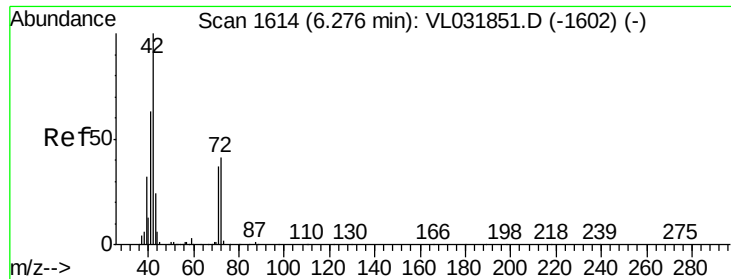
MMDadoda
 4/15/2018 3:06:02 PM



#40
 1,4-Dioxane
 Concen: 1.096 ppbv m
 RT: 8.13 min Scan# 2189
 Delta R.T. 0.04 min
 Lab File: VL031853.D
 Acq: 12 Apr 2018 1:36

Tgt Ion	Ratio	Resp	Lower	Upper
88	100	43523		
58	0.0		99.3	148.9#
43	0.0		197.3	295.9#
57	0.0		859.9	1289.9#





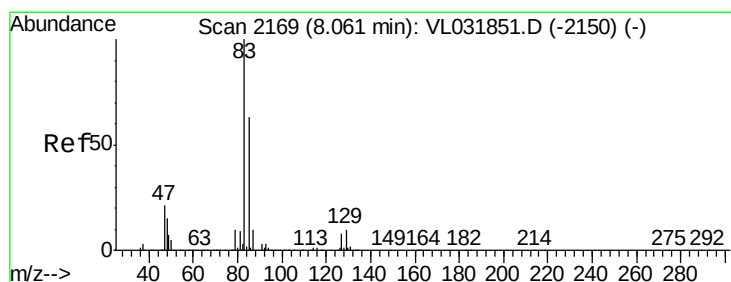
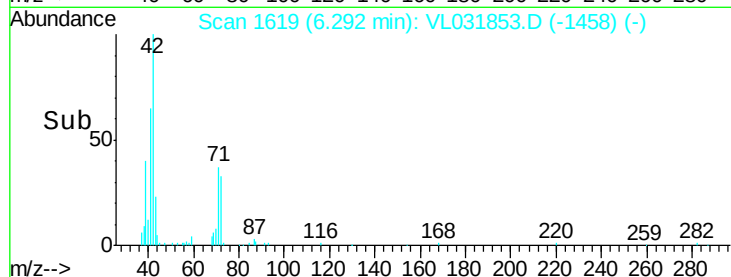
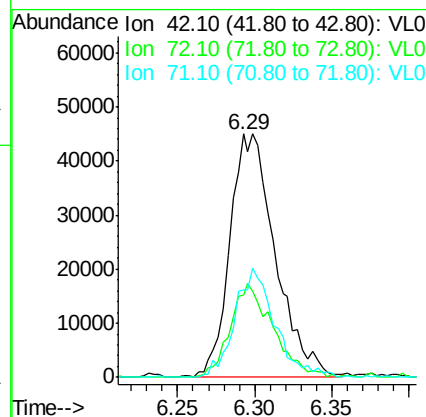
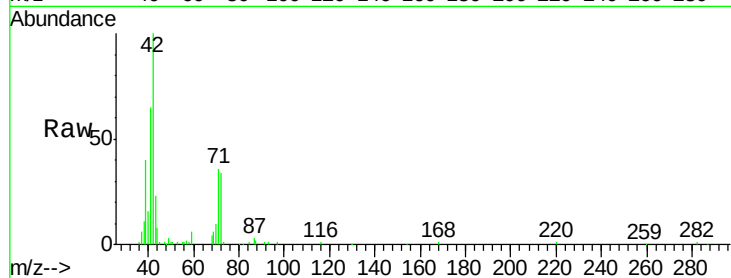
#41
Tetrahydrofuran
Concen: 0.919 ppbv m
RT: 6.29 min Scan# 1619
Delta R.T. 0.02 min
Lab File: VL031853.D
Acq: 12 Apr 2018 1:36

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
42	100		
72	37.0	32.5	48.7
71	0.0	31.3	46.9

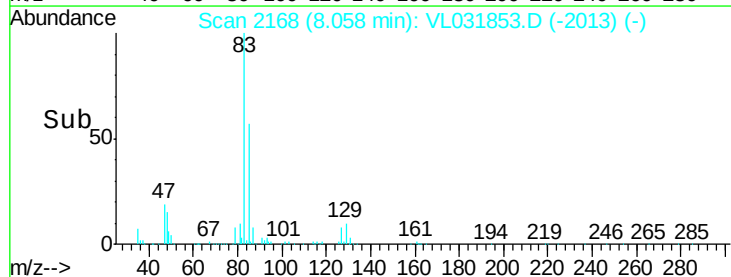
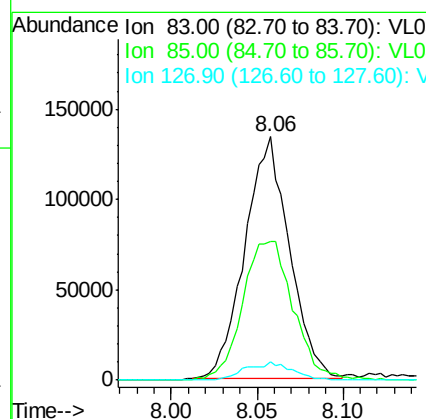
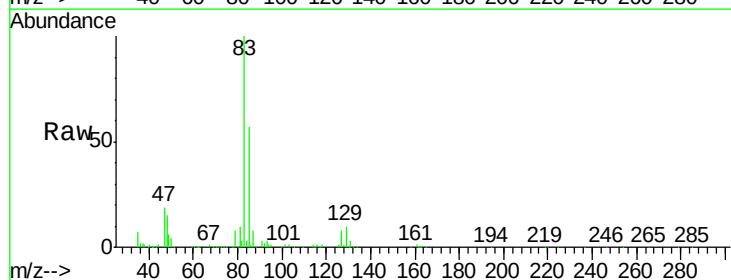
Manual Integrations
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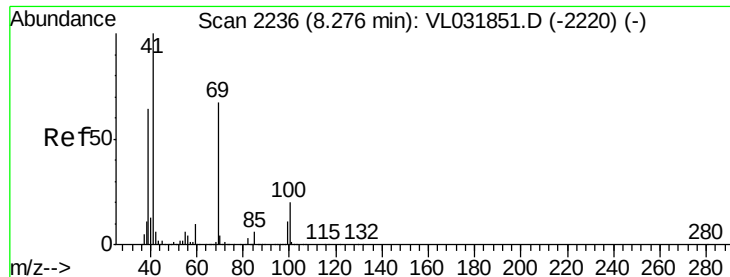
MMDadoda
4/15/2018 3:06:02 PM



#42
Bromodichloromethane
Concen: 1.112 ppbv
RT: 8.06 min Scan# 2168
Delta R.T. -0.00 min
Lab File: VL031853.D
Acq: 12 Apr 2018 1:36

Tgt Ion	Ratio	Lower	Upper
83	100		
85	57.3	50.3	75.5
127	7.8	6.1	9.1





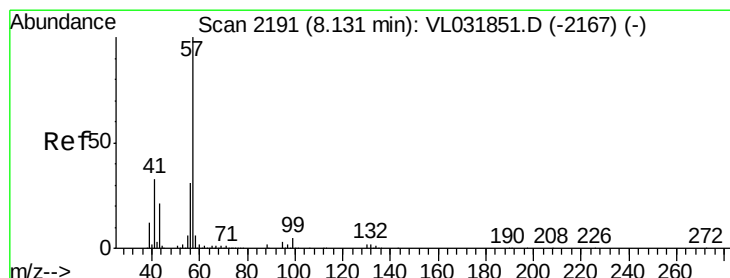
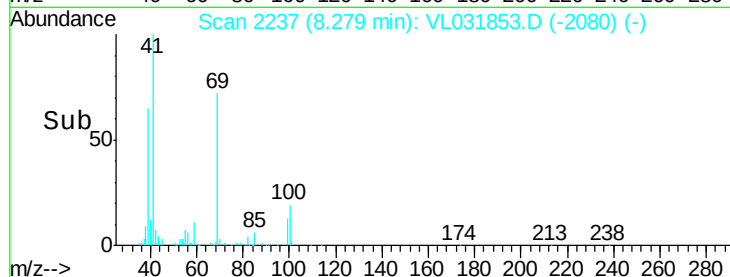
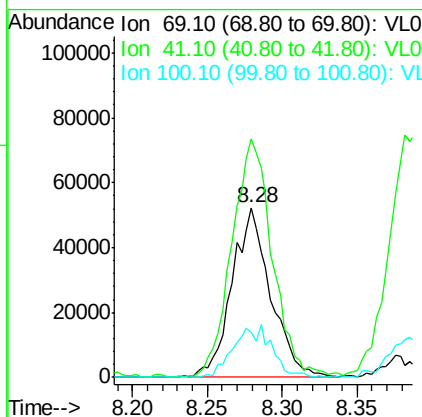
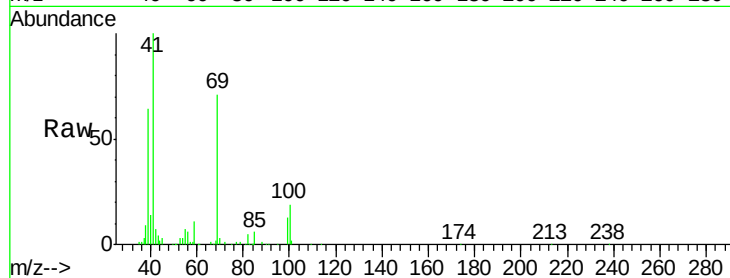
#43
Methyl Methacrylate
Concen: 0.961 ppbv
RT: 8.28 min Scan# 2237
Delta R.T. 0.00 min
Lab File: VL031853.D
Acq: 12 Apr 2018 1:36

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ion	Ratio	Lower	Upper
69	100			
41	150.1	119.8	179.8	
100	31.1	24.9	37.3	

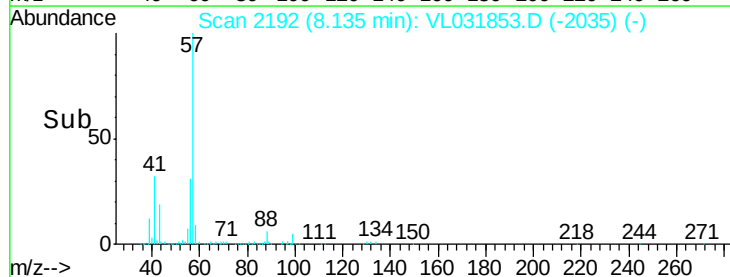
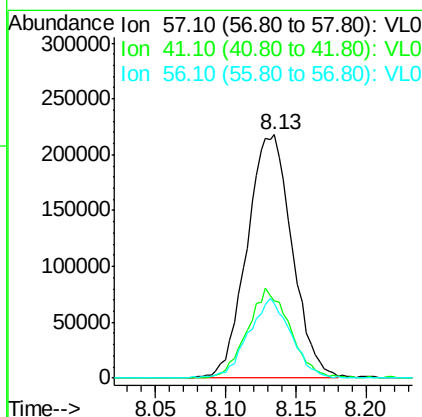
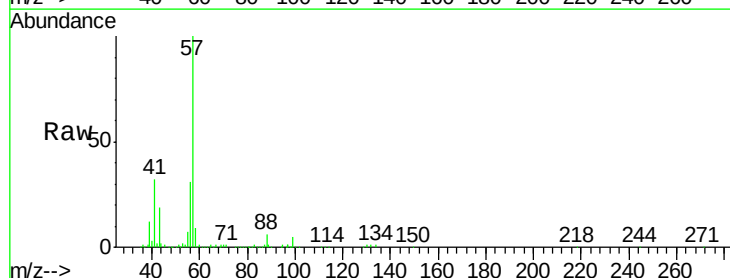
Manual Integrations
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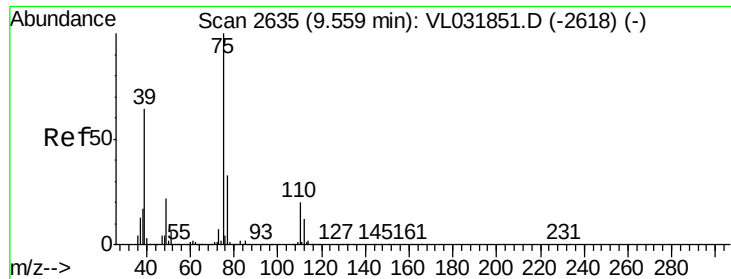
MMDadoda
4/15/2018 3:06:02 PM



#44
2,2,4-Trimethylpentane
Concen: 1.091 ppbv
RT: 8.13 min Scan# 2192
Delta R.T. 0.00 min
Lab File: VL031853.D
Acq: 12 Apr 2018 1:36

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	35.2	26.5	39.7	
56	31.0	24.2	36.4	





#45

t-1,3-Dichloropropene

Concen: 0.820 ppbv

RT: 9.56 min Scan# 2635

Delta R.T. 0.00 min

Lab File: VL031853.D

Acq: 12 Apr 2018 1:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 75 Resp: 107356

Ion Ratio Lower Upper

75 100

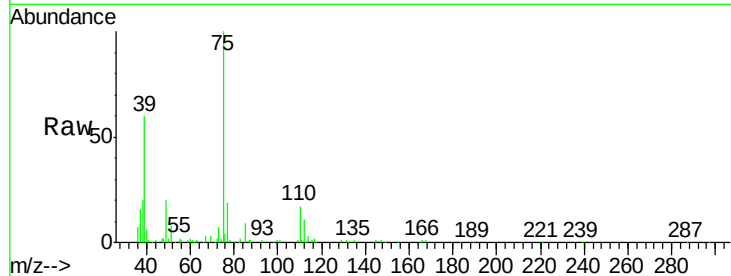
77 19.1 26.2 39.4#

Manual Integrations

APPROVED

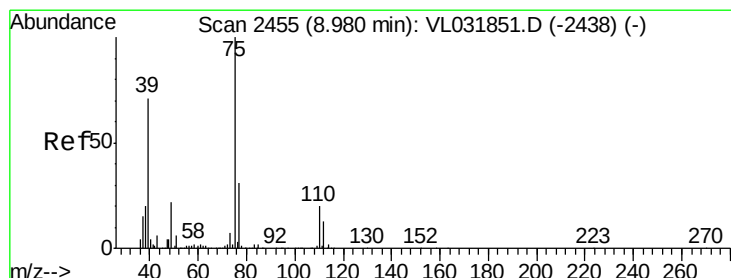
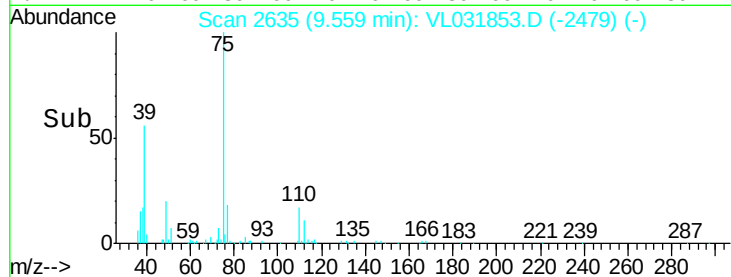
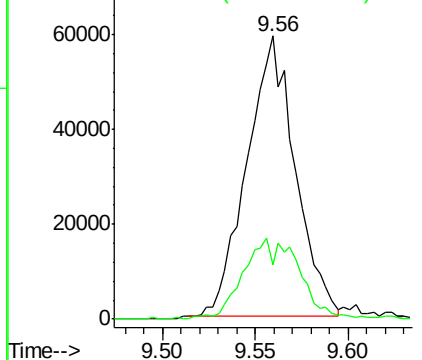
MMDadoda

4/15/2018 3:06:02 PM



Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#46

cis-1,3-Dichloropropene

Concen: 0.902 ppbv

RT: 8.98 min Scan# 2454

Delta R.T. -0.00 min

Lab File: VL031853.D

Acq: 12 Apr 2018 1:36

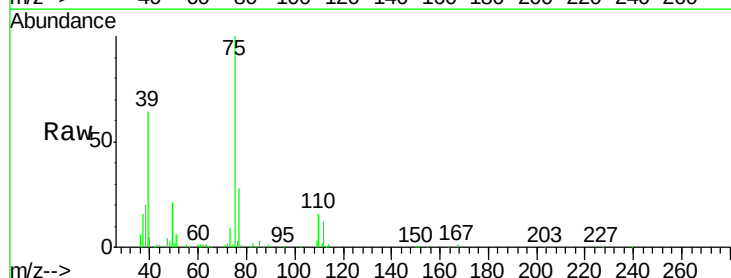
Tgt Ion: 75 Resp: 147409

Ion Ratio Lower Upper

75 100

39 64.1 56.9 85.3

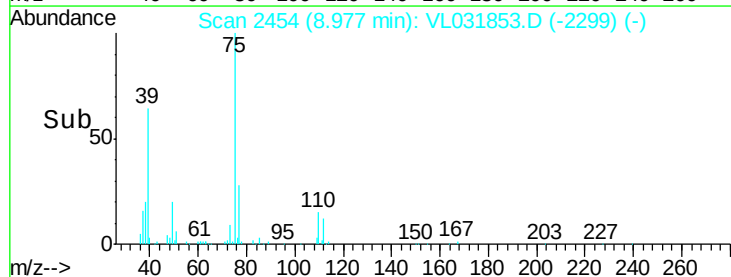
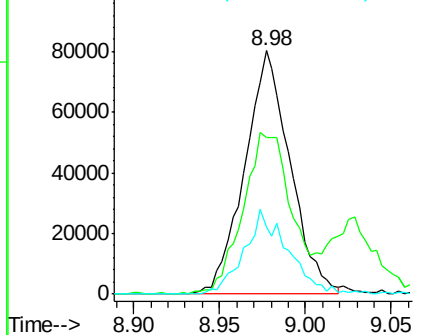
77 27.2 25.1 37.7

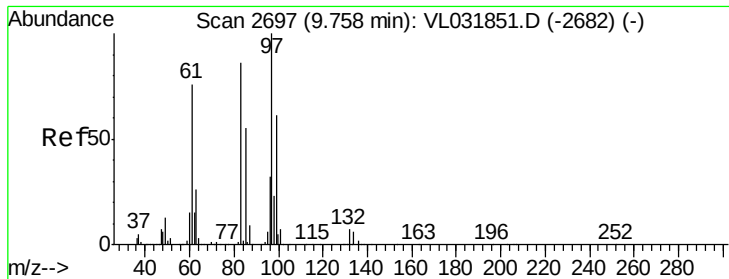


Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0





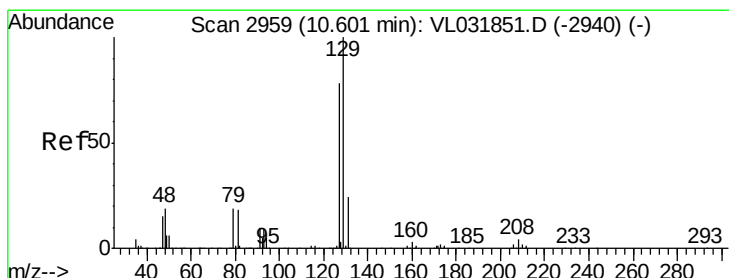
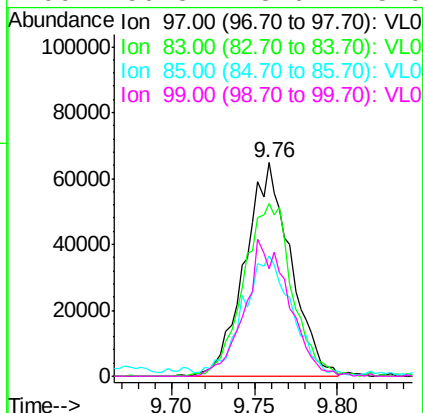
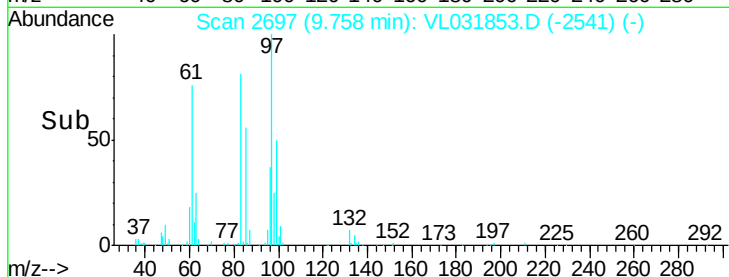
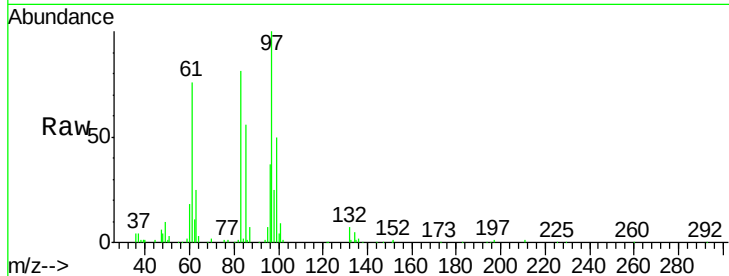
#47
 1,1,2-Trichloroethane
 Concen: 1.094 ppbv
 RT: 9.76 min Scan# 2697
 Delta R.T. 0.00 min
 Lab File: VL031853.D
 Acq: 12 Apr 2018 1:36

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		123402		
83	80.5	68.4	102.6		
85	53.9	44.5	66.7		
99	50.3	48.6	73.0		

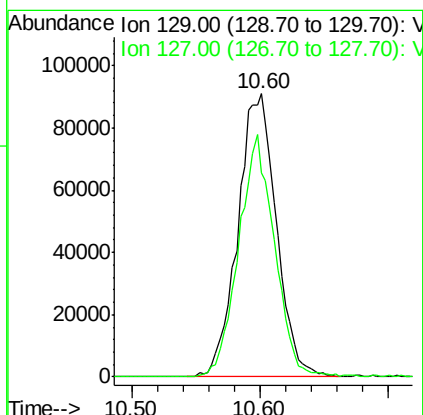
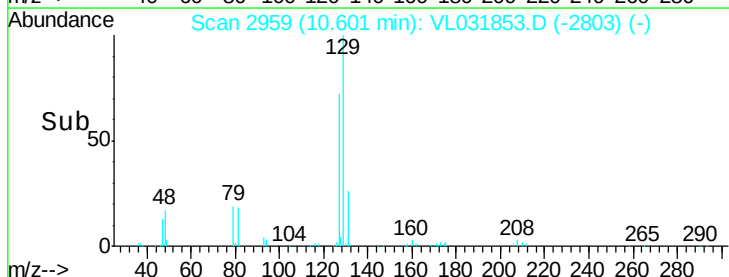
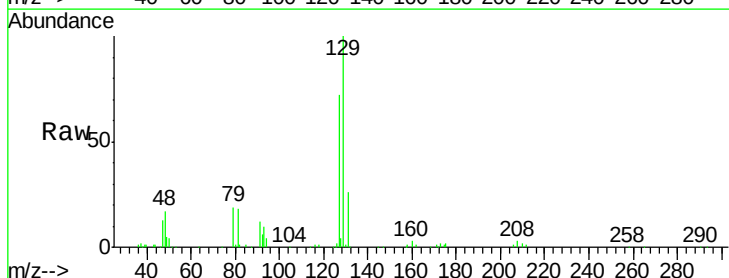
Manual Integrations
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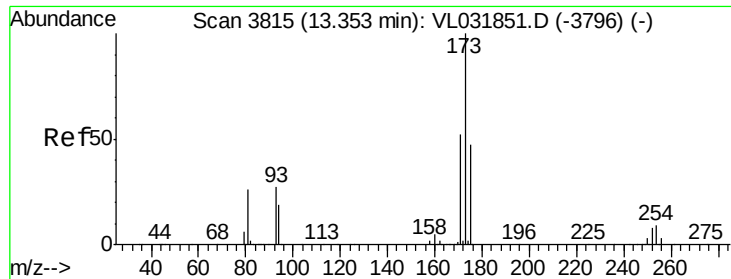
MMDadoda
 4/15/2018 3:06:02 PM



#48
 Dibromochloromethane
 Concen: 1.077 ppbv m
 RT: 10.60 min Scan# 2959
 Delta R.T. 0.00 min
 Lab File: VL031853.D
 Acq: 12 Apr 2018 1:36

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
129	100		189208		
127	80.3	39.1	117.2		





#49

Bromoform

Concen: 1.125 ppbv

RT: 13.35 min Scan# 3814

Delta R.T. -0.00 min

Lab File: VL031853.D

Acq: 12 Apr 2018 1:36

Instrument :

MSVOA_L

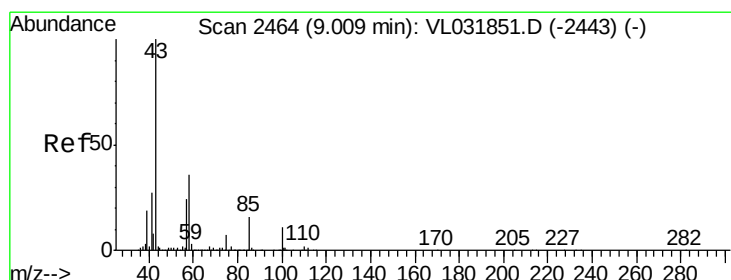
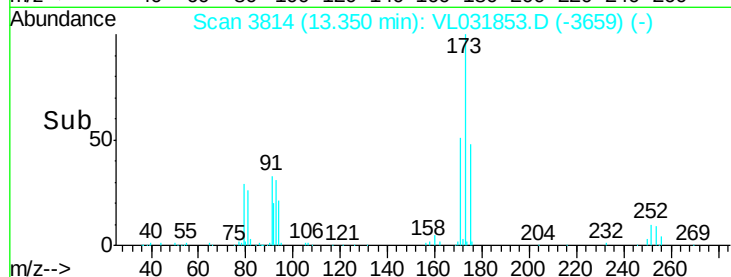
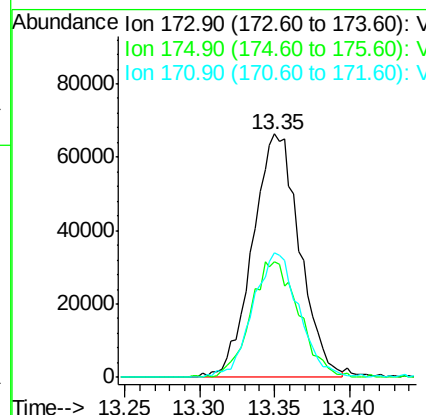
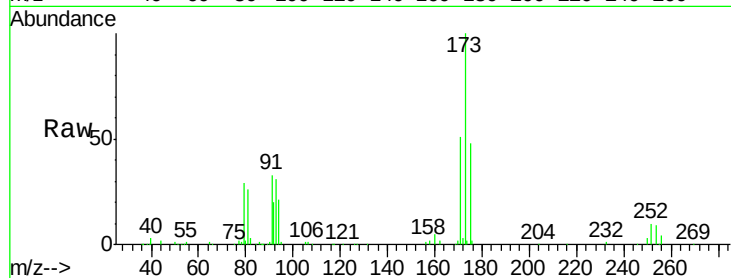
ClientSampleId :

VSTDIC001

Tot Ion:	173	Resp:	145121
Ion Ratio	Lower	Upper	
173	100		
175	49.1	39.4	59.0
171	50.4	42.2	63.2

Manual Integrations
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MMDadoda
4/15/2018 3:06:02 PM



#50

4-Methyl-2-Pentanone

Concen: 1.057 ppbv

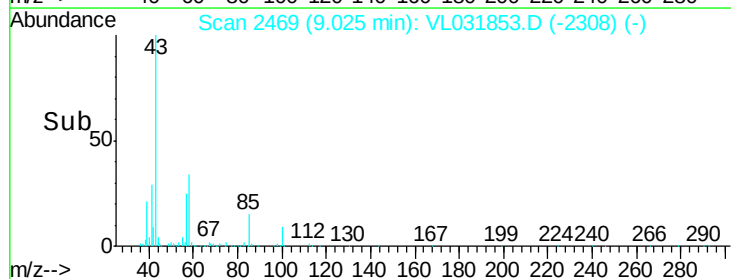
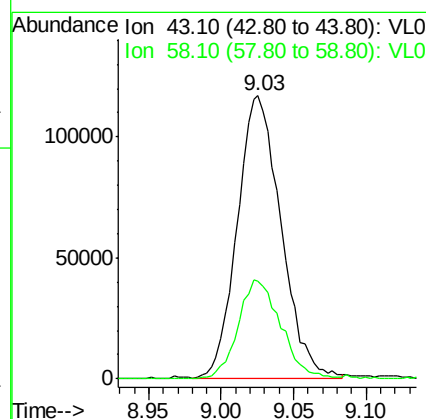
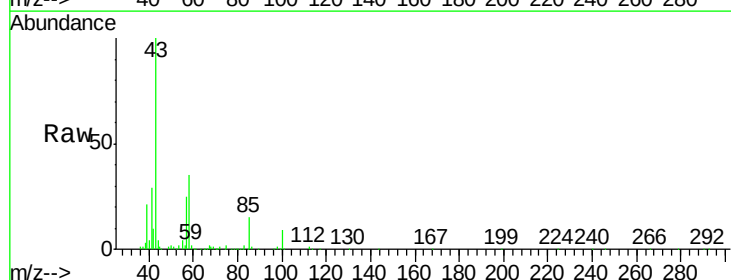
RT: 9.03 min Scan# 2469

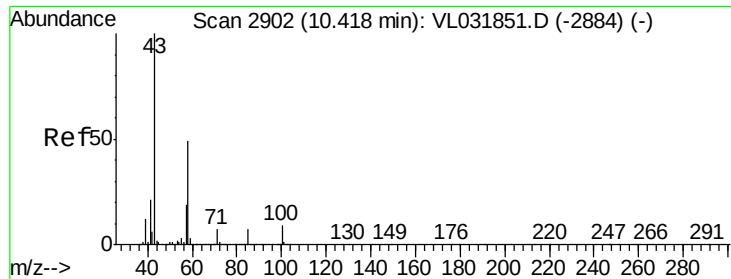
Delta R.T. 0.02 min

Lab File: VL031853.D

Acq: 12 Apr 2018 1:36

Tgt Ion:	43	Resp:	243683
Ion Ratio	Lower	Upper	
43	100		
58	35.1	29.1	43.7





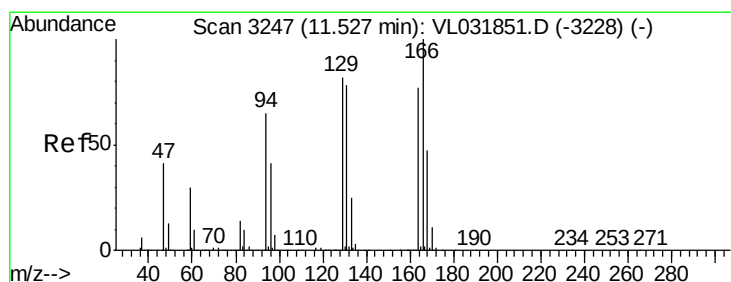
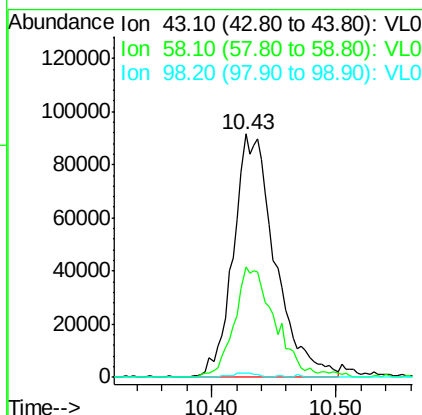
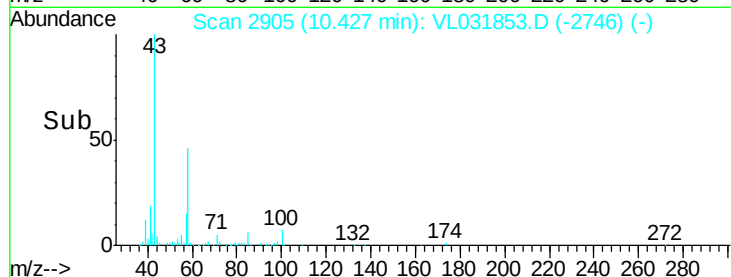
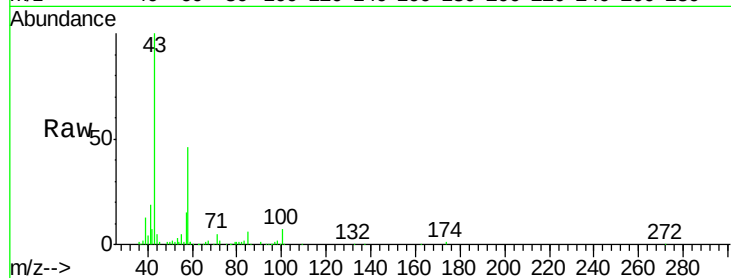
#51
2-Hexanone
Concen: 0.994 ppbv m
RT: 10.43 min Scan# 2905
Delta R.T. 0.01 min
Lab File: VL031853.D
Acq: 12 Apr 2018 1:36

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
43	100		
58	44.8	38.4	57.6
98	1.4	0.2	0.4

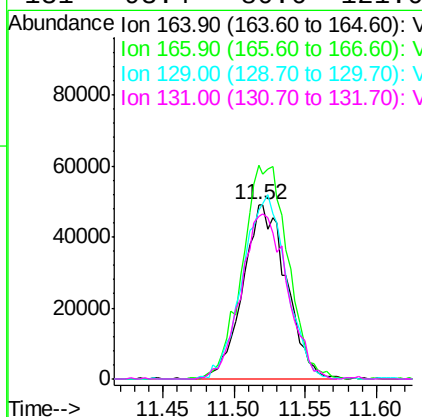
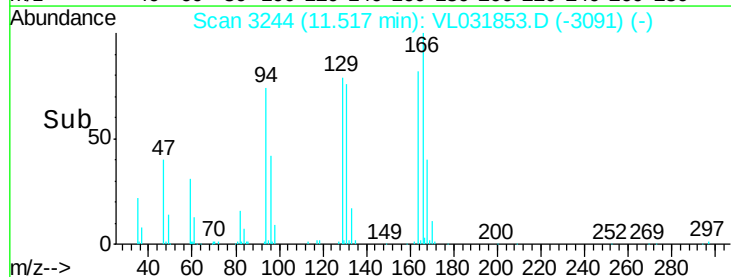
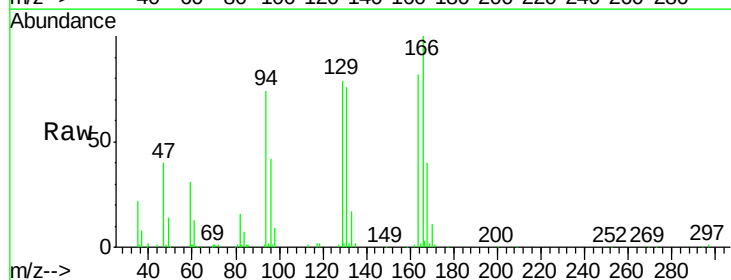
Manual Integrations
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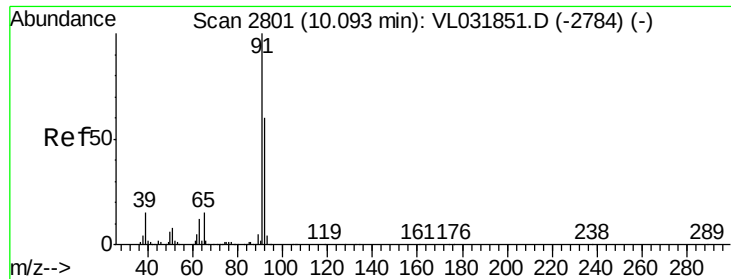
MMDadoda
4/15/2018 3:06:02 PM



#52
Tetrachloroethene
Concen: 0.947 ppbv m
RT: 11.52 min Scan# 3244
Delta R.T. -0.01 min
Lab File: VL031853.D
Acq: 12 Apr 2018 1:36

Tgt Ion	Ratio	Lower	Upper
164	100		
166	122.5	103.3	154.9
129	97.1	84.2	126.4
131	93.4	80.6	121.0





#53

Toluene

Concen: 0.956 ppbv

RT: 10.09 min Scan# 2800

Delta R.T. -0.00 min

Lab File: VL031853.D

Acq: 12 Apr 2018 1:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 91 Resp: 301619

Ion Ratio Lower Upper

91 100

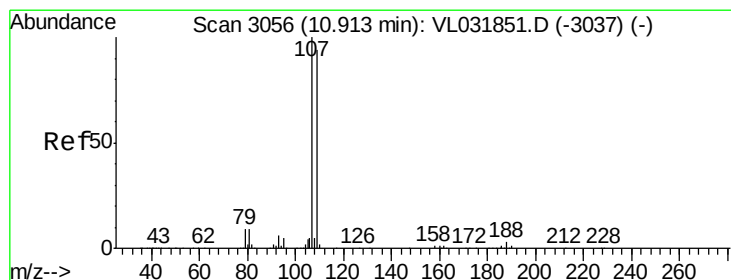
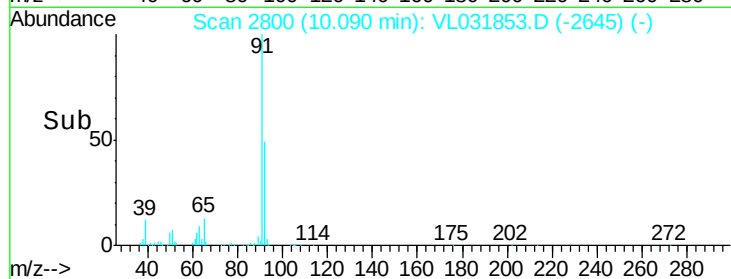
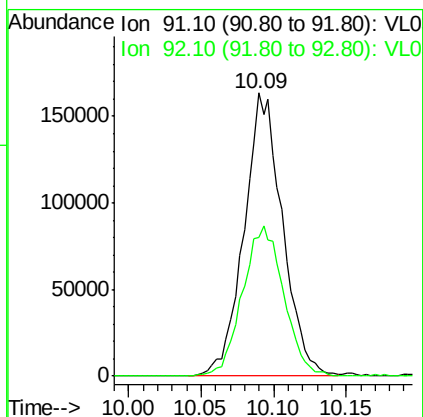
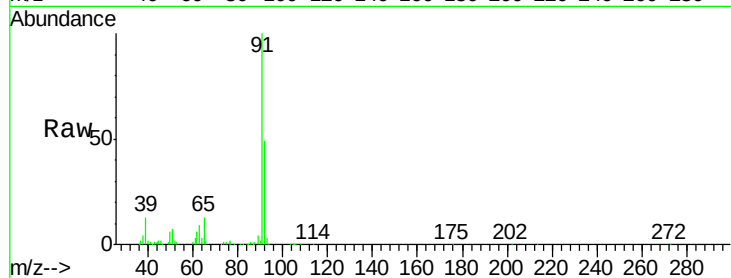
92 56.9 47.2 70.8

Manual Integrations

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MMDadoda

4/15/2018 3:06:02 PM



#54

1,2-Dibromoethane

Concen: 1.015 ppbv

RT: 10.91 min Scan# 3055

Delta R.T. -0.00 min

Lab File: VL031853.D

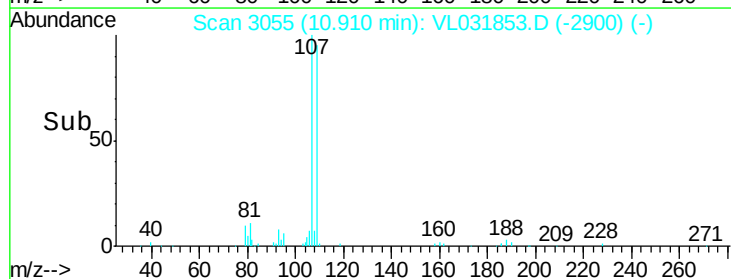
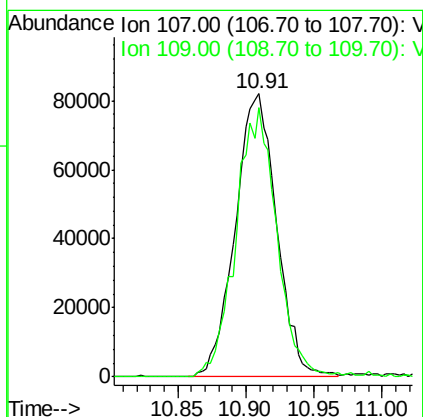
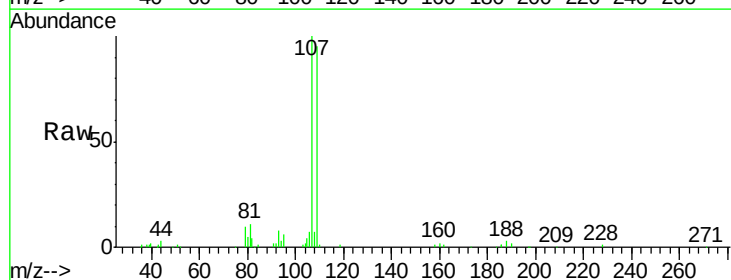
Acq: 12 Apr 2018 1:36

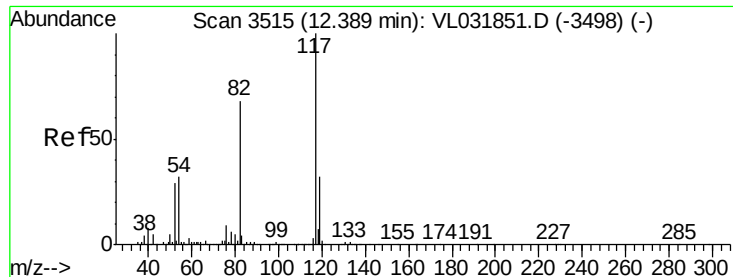
Tgt Ion: 107 Resp: 173010

Ion Ratio Lower Upper

107 100

109 94.9 75.1 112.7





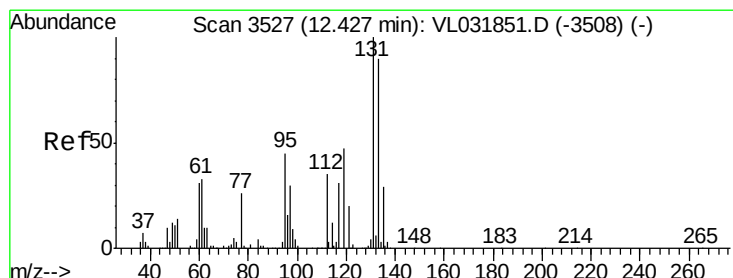
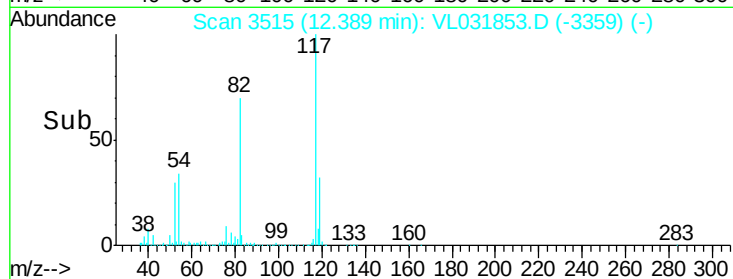
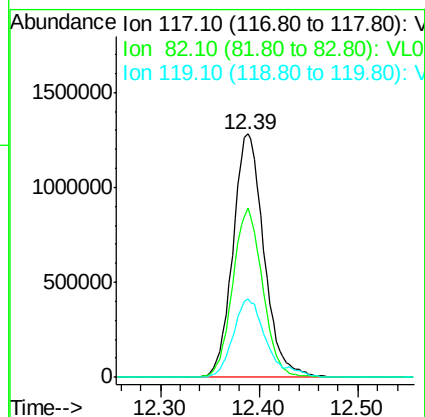
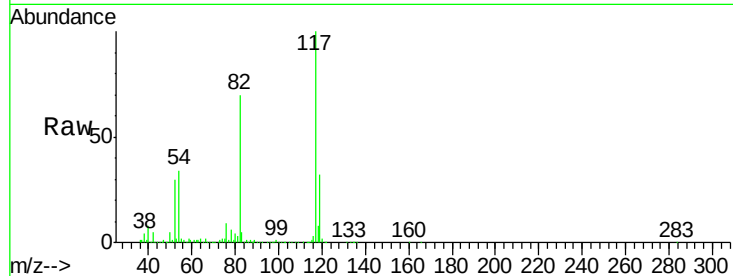
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.39 min Scan# 3515
Delta R.T. 0.00 min
Lab File: VL031853.D
Acq: 12 Apr 2018 1:36

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
117	100		
82	67.5	52.9	79.3
119	34.4	43.8	65.6

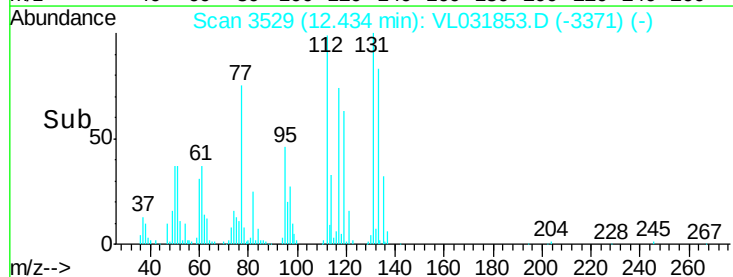
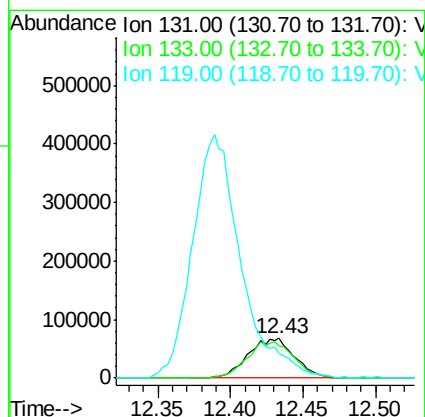
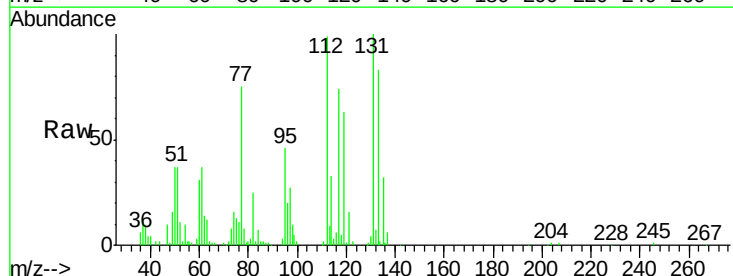
Manual Integrations
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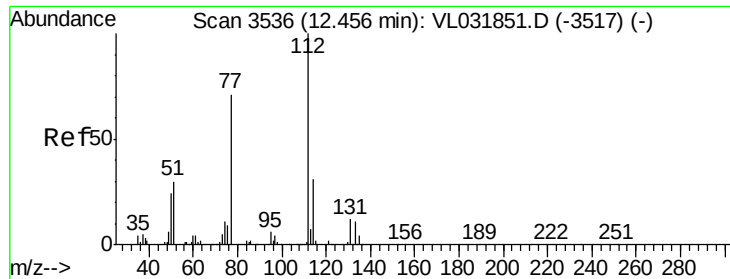
MMDadoda
4/15/2018 3:06:02 PM



#56
1,1,1,2-Tetrachloroethane
Concen: 1.162 ppbv
RT: 12.43 min Scan# 3529
Delta R.T. 0.01 min
Lab File: VL031853.D
Acq: 12 Apr 2018 1:36

Tgt Ion	Ratio	Lower	Upper
131	100		
133	93.5	75.9	113.9
119	644.2	106.7	160.1





#57

Chlorobenzene

Concen: 1.049 ppbv

RT: 12.45 min Scan# 3534

Delta R.T. -0.01 min

Lab File: VL031853.D

Acq: 12 Apr 2018 1:36

Instrument :

MSVOA_L

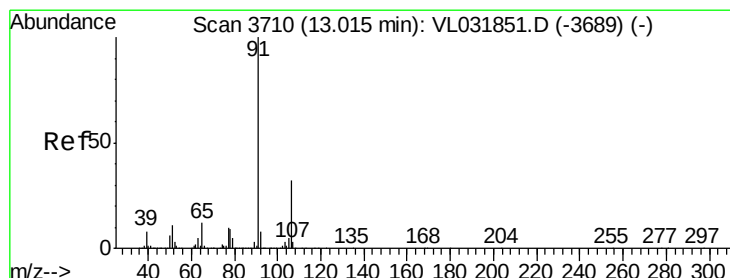
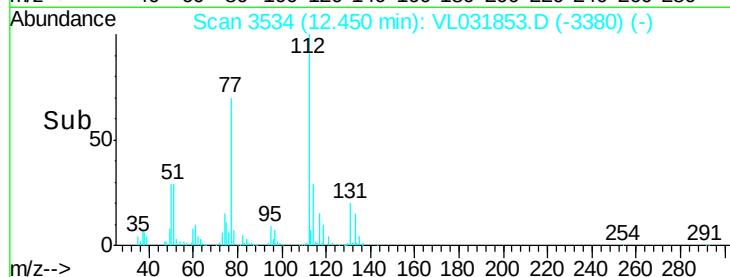
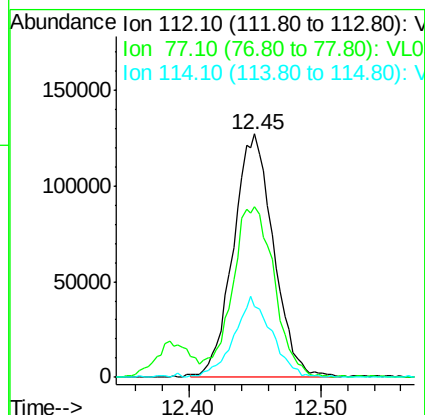
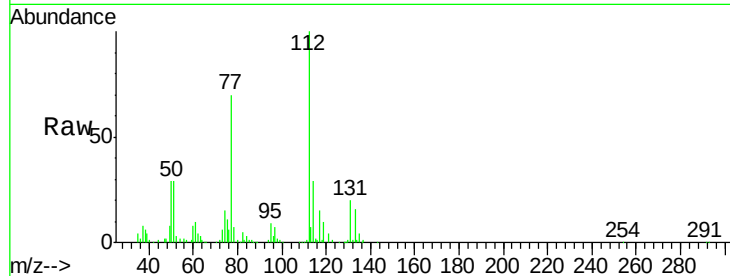
ClientSampleId :

VSTDIC001

Tot Ion:	112	Resp:	264483
Ion Ratio	Lower	Upper	
112	100		
77	70.1	58.2	87.2
114	28.9	28.4	34.7

Manual Integrations
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4/15/2018 3:06:02 PM



#58

Ethyl Benzene

Concen: 0.920 ppbv

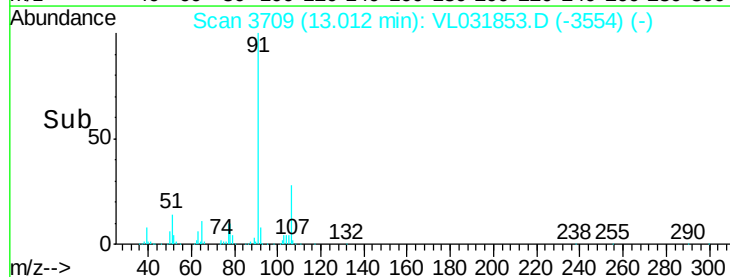
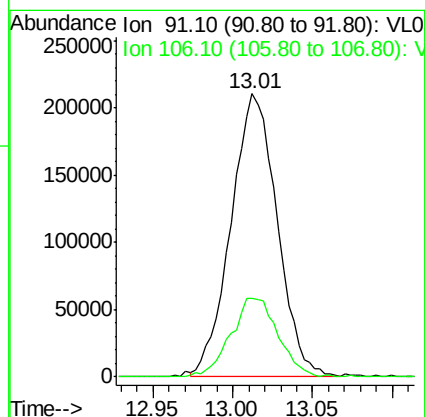
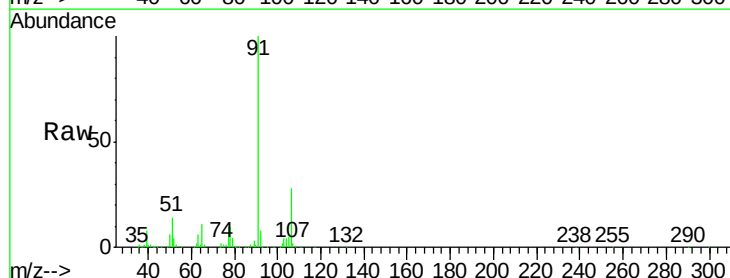
RT: 13.01 min Scan# 3709

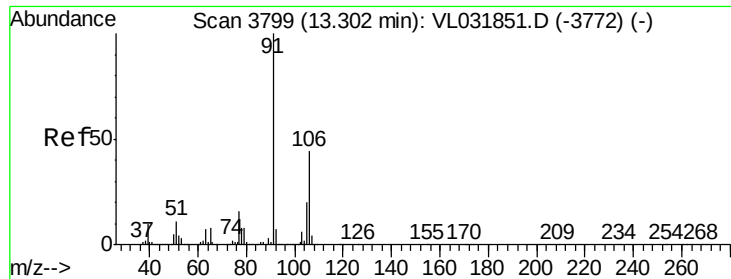
Delta R.T. -0.00 min

Lab File: VL031853.D

Acq: 12 Apr 2018 1:36

Tgt Ion:	91	Resp:	411504
Ion Ratio	Lower	Upper	
91	100		
106	28.0	25.4	38.0





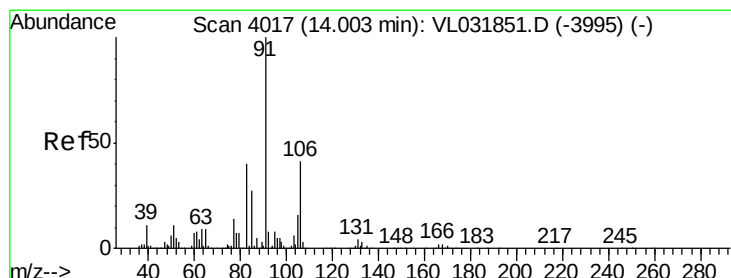
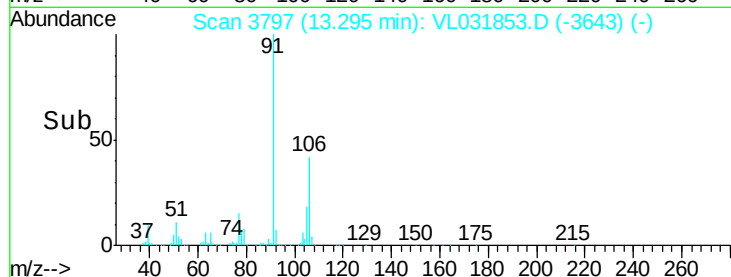
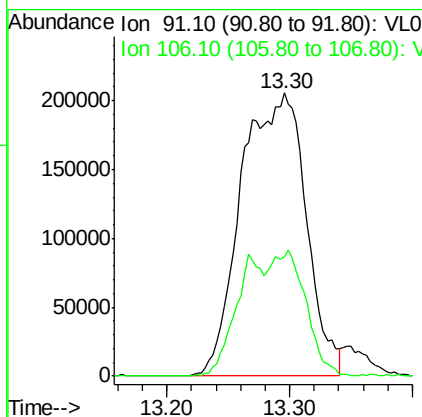
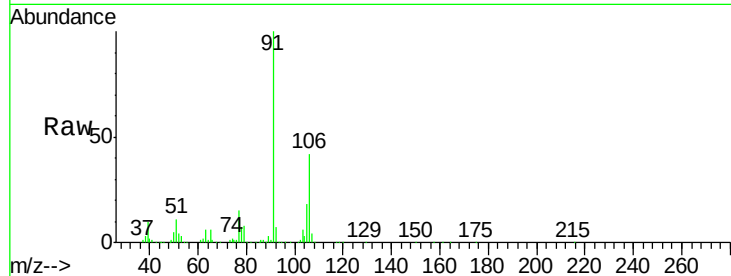
#59
m/p-Xylene
Concen: 2.041 ppbv m
RT: 13.30 min Scan# 3797
Delta R.T. -0.01 min
Lab File: VL031853.D
Acq: 12 Apr 2018 1:36

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
91	100		
106	43.7	0.0	0.0#

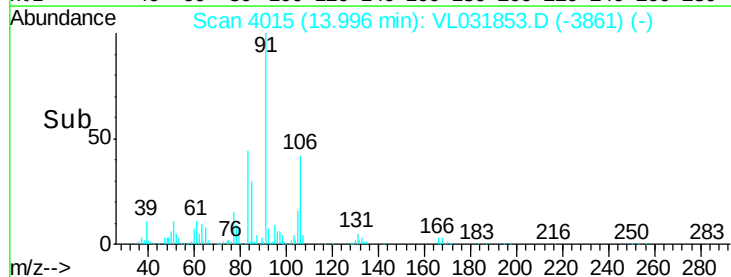
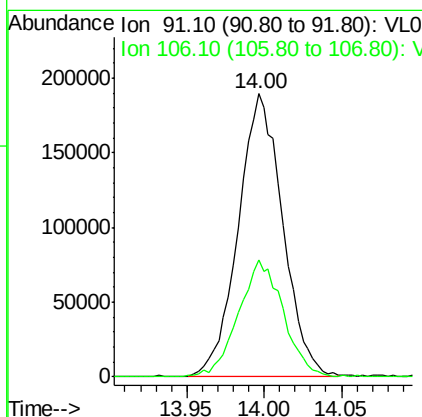
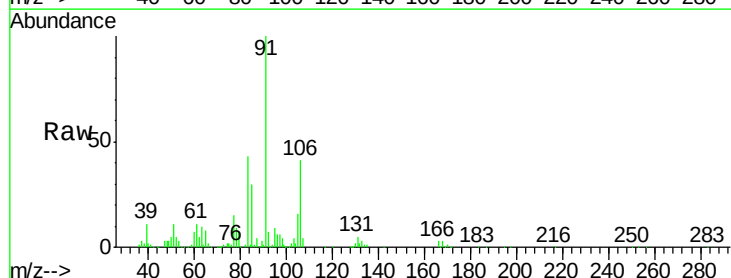
Manual Integrations
APPROVED

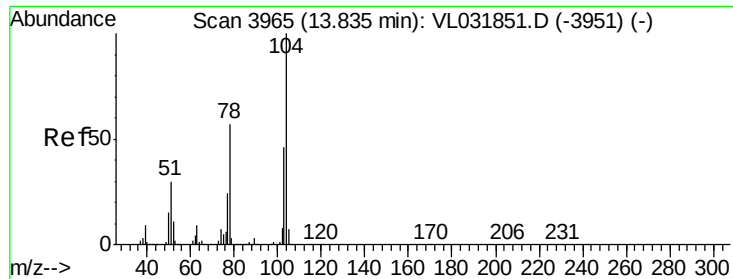
MMDadoda
4/15/2018 3:06:02 PM



#60
o-Xylene
Concen: 1.008 ppbv
RT: 14.00 min Scan# 4015
Delta R.T. -0.01 min
Lab File: VL031853.D
Acq: 12 Apr 2018 1:36

Tgt Ion	Ratio	Lower	Upper
91	100		
106	42.1	21.0	63.0





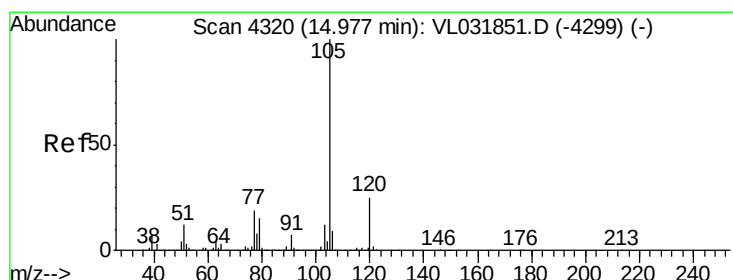
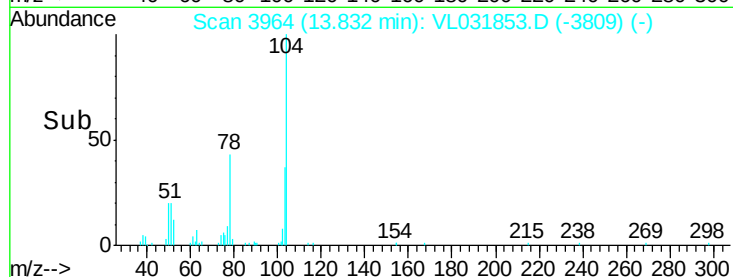
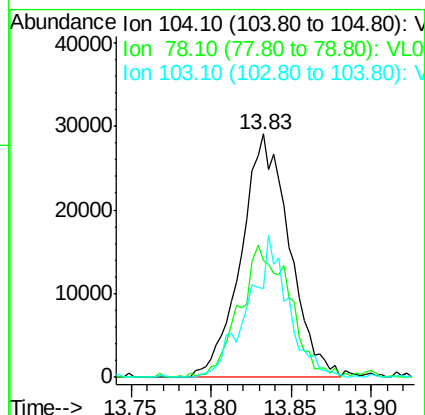
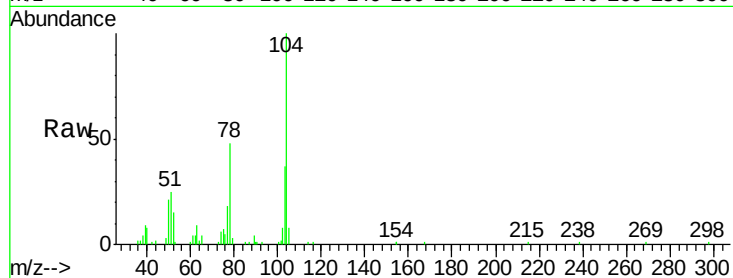
#61
Stvrene
Concen: 0.727 ppbv
RT: 13.83 min Scan# 3964
Delta R.T. -0.00 min
Lab File: VL031853.D
Acq: 12 Apr 2018 1:36

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
104	100		
78	56.8	44.6	66.8
103	48.6	37.9	56.9

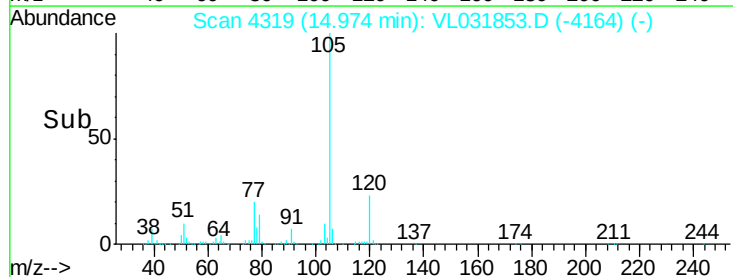
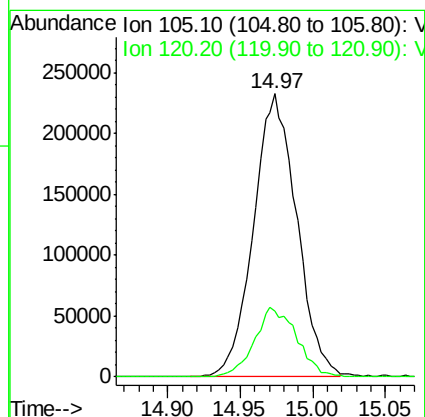
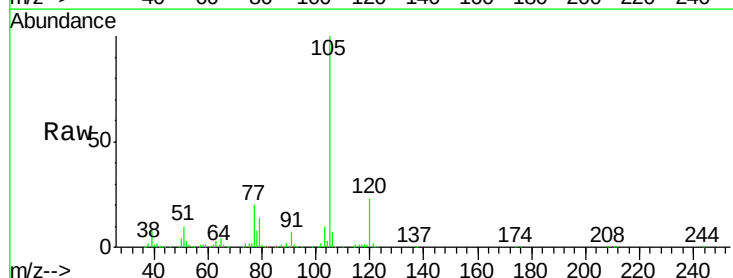
Manual Integrations
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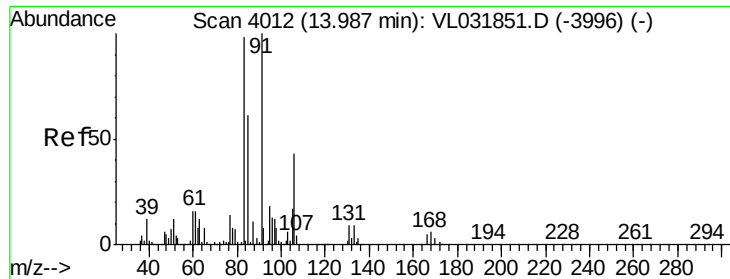
MMDadoda
4/15/2018 3:06:02 PM



#62
Isopropylbenzene
Concen: 1.020 ppbv
RT: 14.97 min Scan# 4319
Delta R.T. -0.00 min
Lab File: VL031853.D
Acq: 12 Apr 2018 1:36

Tgt Ion	Ratio	Lower	Upper
105	100		
120	24.1	19.8	29.6





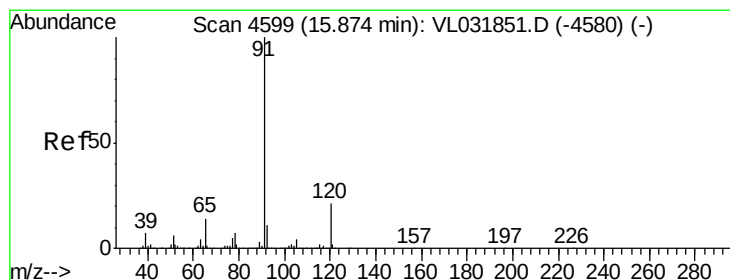
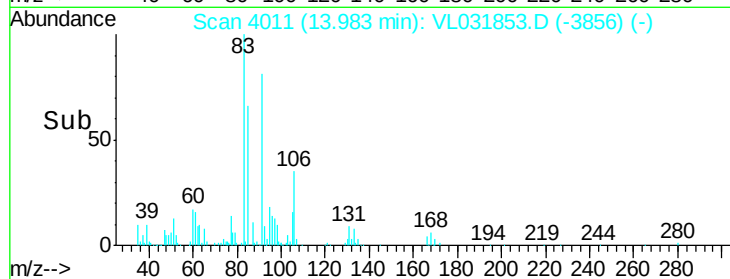
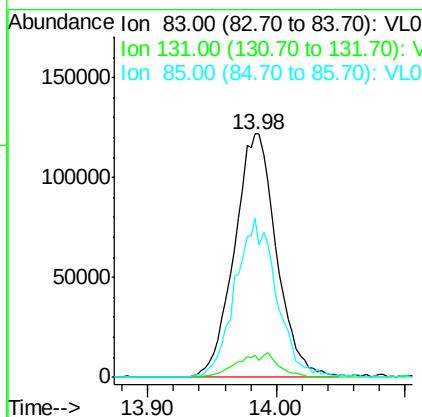
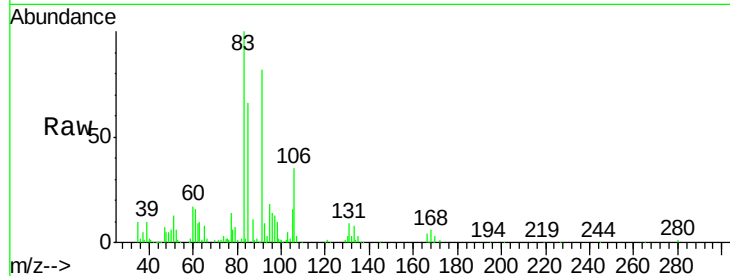
#63
 1,1,2,2-Tetrachloroethane
 Concen: 1.136 ppbv
 RT: 13.98 min Scan# 4011
 Delta R.T. -0.00 min
 Lab File: VL031853.D
 Acq: 12 Apr 2018 1:36

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Resp	Lower	Upper
83	100			
131	9.8	4.8	14.4	
85	64.5	32.8	98.4	

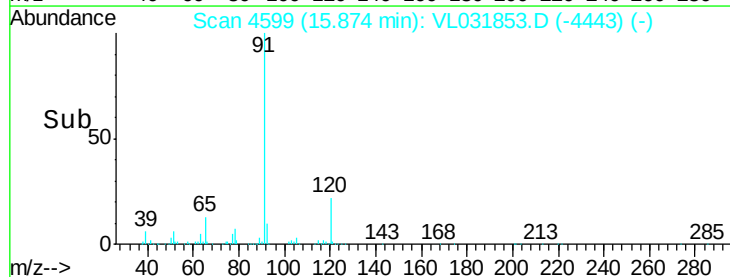
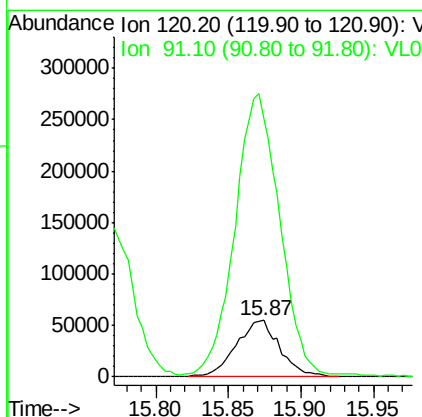
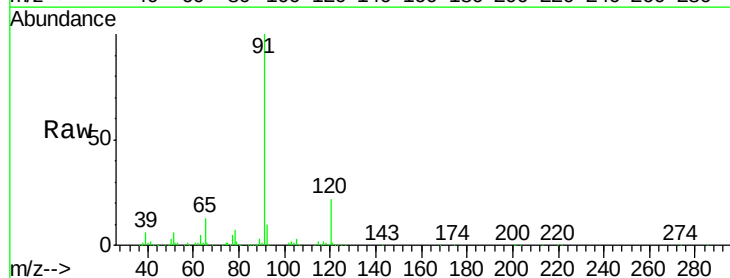
Manual Integrations
 APPROVED

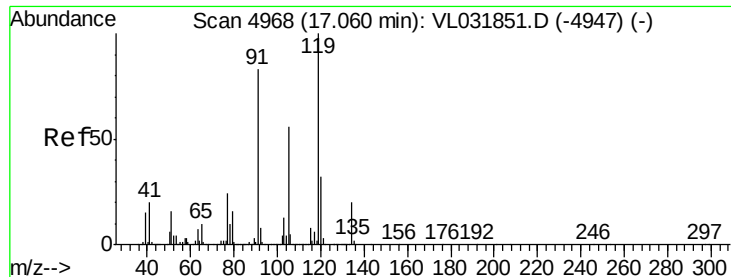
MMDadoda
 4/15/2018 3:06:02 PM



#64
 n-propylbenzene
 Concen: 0.998 ppbv
 RT: 15.87 min Scan# 4599
 Delta R.T. 0.00 min
 Lab File: VL031853.D
 Acq: 12 Apr 2018 1:36

Tgt Ion	Ratio	Resp	Lower	Upper
120	100			
91	529.4	397.3	595.9	





#65

tert-Butylbenzene

Concen: 1.035 ppbv

RT: 17.06 min Scan# 4967

Delta R.T. -0.00 min

Lab File: VL031853.D

Acq: 12 Apr 2018 1:36

Instrument :

MSVOA_L

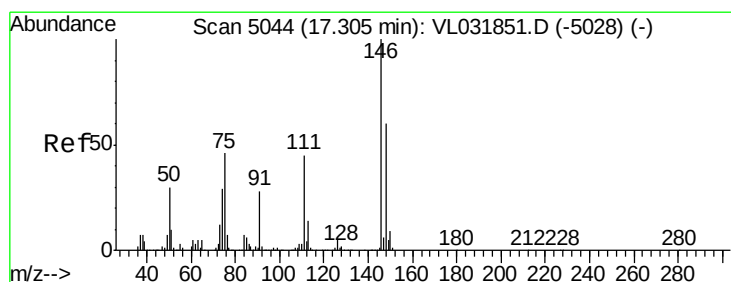
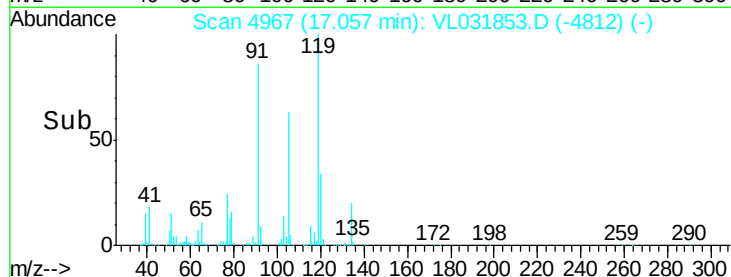
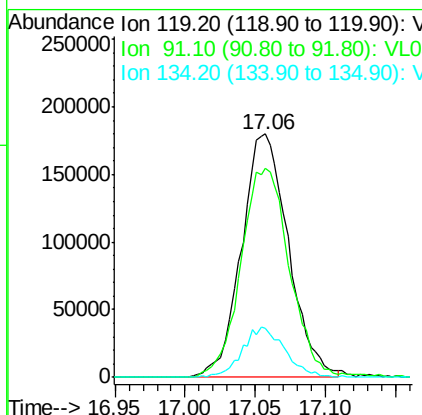
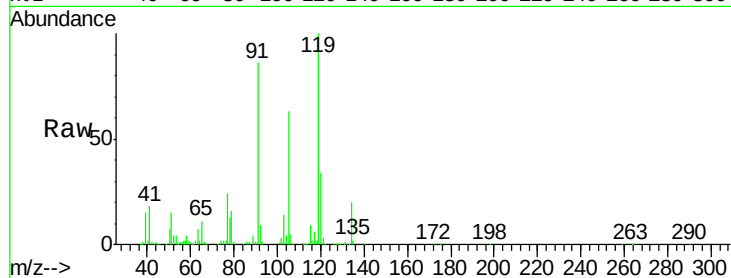
ClientSampleId :

VSTDIC001

Tot Ion:	119	Resp:	418525
Ion Ratio	Lower	Upper	
119	100		
91	89.8	69.0	103.6
134	18.8	15.4	23.0

Manual Integrations
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#66

Benzyl Chloride

Concen: 0.919 ppbv m

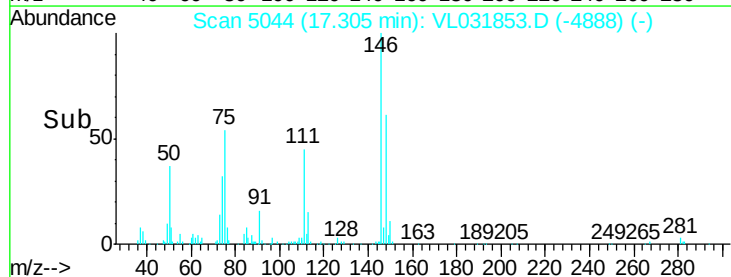
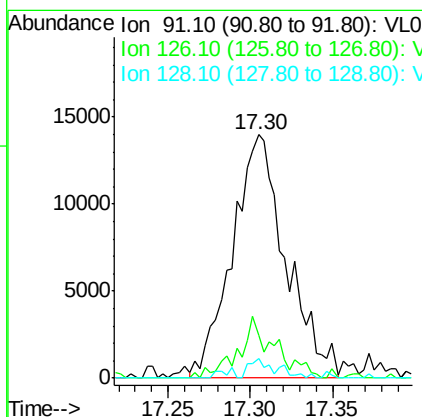
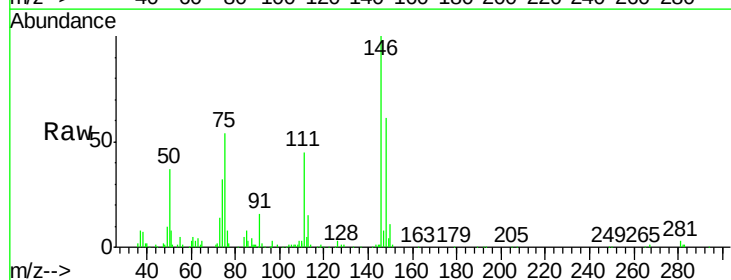
RT: 17.30 min Scan# 5044

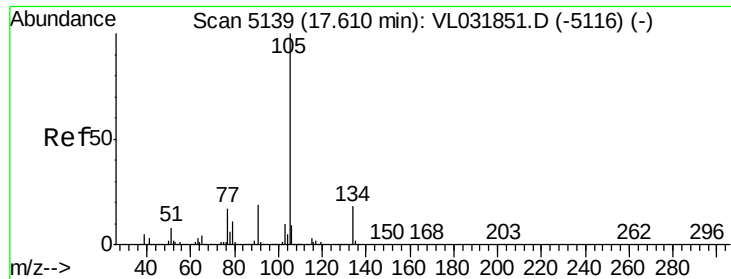
Delta R.T. 0.00 min

Lab File: VL031853.D

Acq: 12 Apr 2018 1:36

Tgt Ion:	91	Resp:	31680
Ion Ratio	Lower	Upper	
91	100		
126	17.4	12.7	19.1
128	5.4	4.1	6.1





#67

sec-Butylbenzene

Concen: 1.073 ppbv m

RT: 17.60 min Scan# 5136

Delta R.T. -0.01 min

Lab File: VL031853.D

Acq: 12 Apr 2018 1:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 105 Resp: 605043

Ion Ratio Lower Upper

105 100

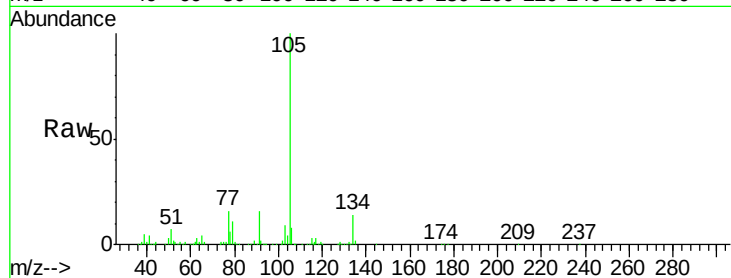
134 16.6 14.0 21.0

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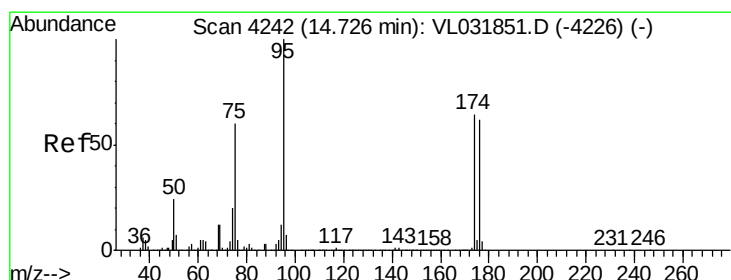
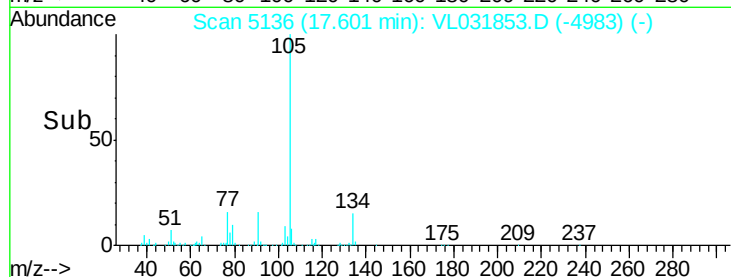
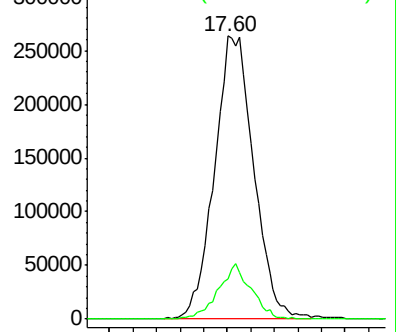
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.864 ppbv

RT: 14.73 min Scan# 4242

Delta R.T. 0.00 min

Lab File: VL031853.D

Acq: 12 Apr 2018 1:36

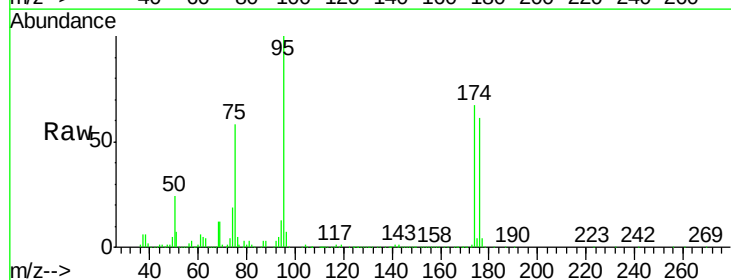
Tgt Ion: 95 Resp: 2291240

Ion Ratio Lower Upper

95 100

174 64.9 52.2 78.2

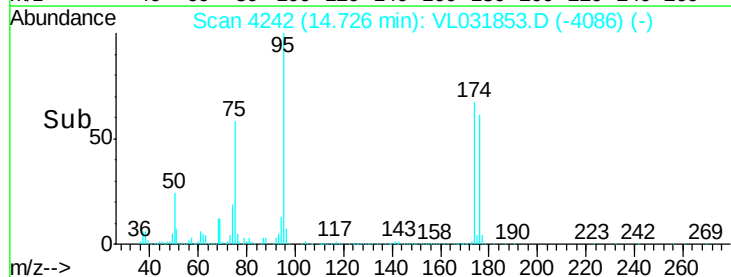
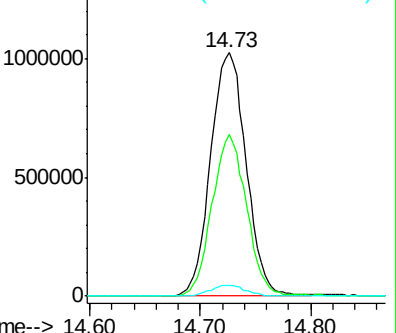
175 4.6 3.8 5.8

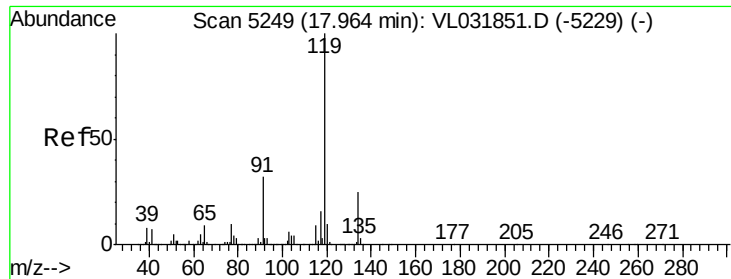


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





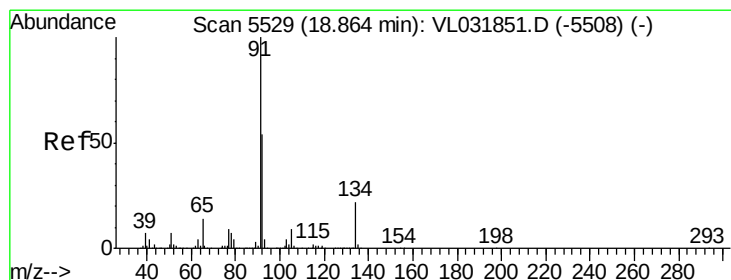
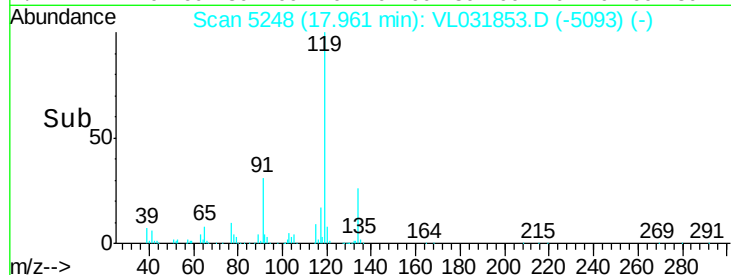
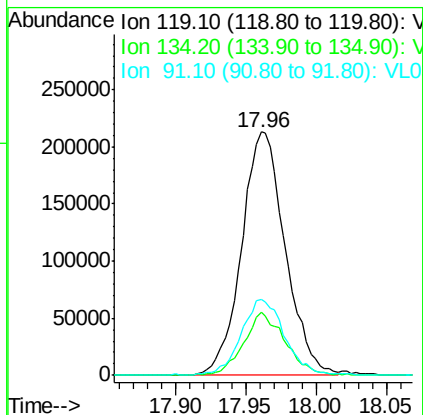
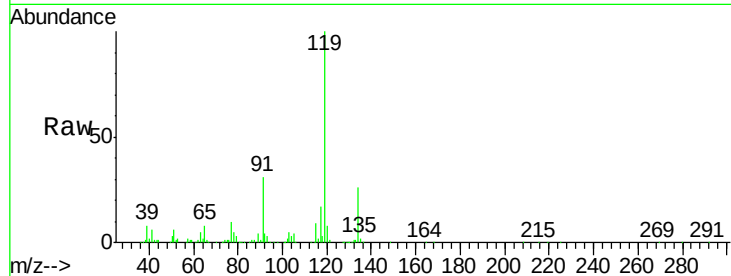
#69
 p-Isopropyltoluene
 Concen: 1.012 ppbv
 RT: 17.96 min Scan# 5248
 Delta R.T. -0.00 min
 Lab File: VL031853.D
 Acq: 12 Apr 2018 1:36

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.1	19.7	29.5
91	31.9	24.6	37.0

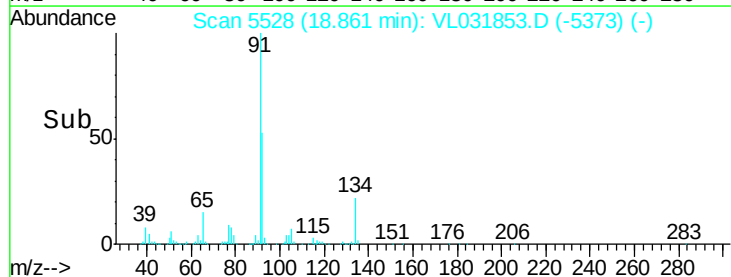
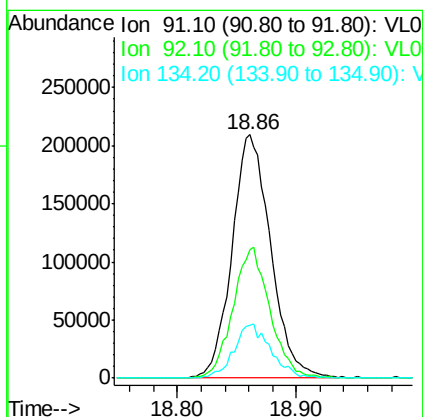
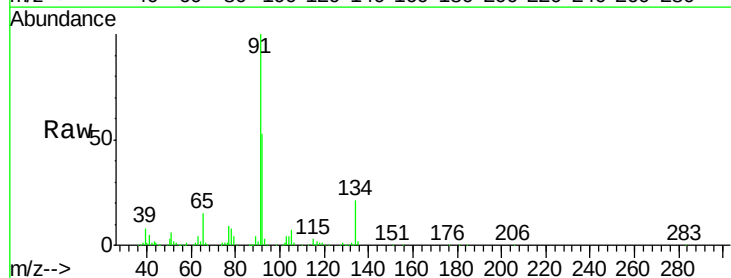
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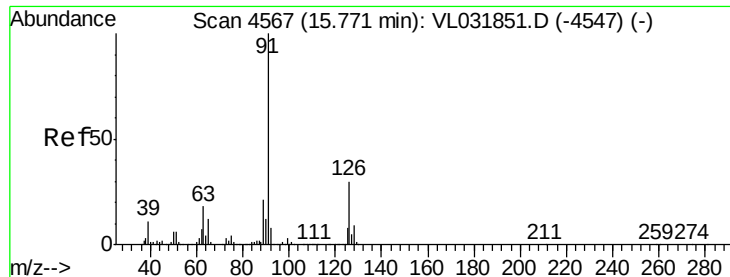
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 4/15/2018 3:06:02 PM



#70
 n-Butylbenzene
 Concen: 1.047 ppbv
 RT: 18.86 min Scan# 5528
 Delta R.T. -0.00 min
 Lab File: VL031853.D
 Acq: 12 Apr 2018 1:36

Tgt Ion	Ratio	Lower	Upper
91	100		
92	51.7	42.2	63.4
134	21.2	17.2	25.8





#71

2-Chlorotoluene

Concen: 0.962 ppbv

RT: 15.76 min Scan# 4565

Delta R.T. -0.01 min

Lab File: VL031853.D

Acq: 12 Apr 2018 1:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 91 Resp: 340529

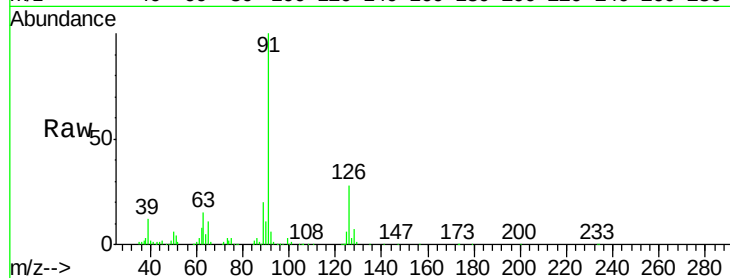
Ion Ratio Lower Upper

91 100

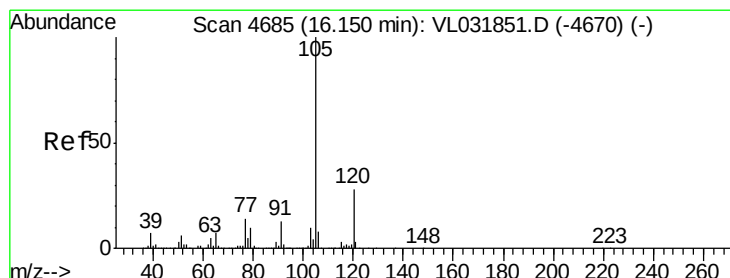
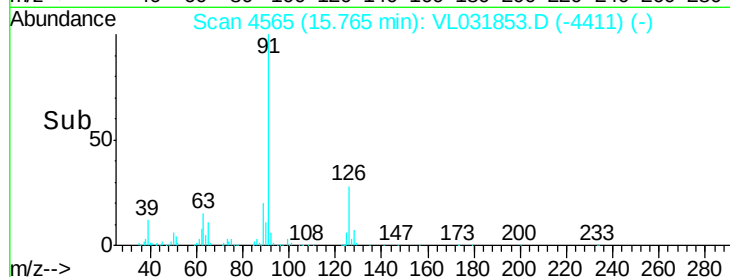
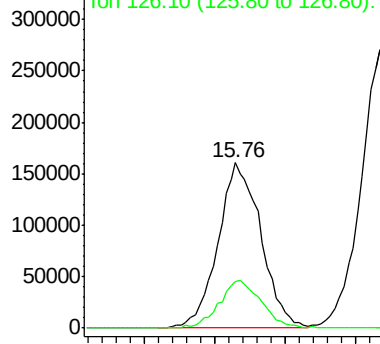
126 28.5 11.5 45.9

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Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 0.996 ppbv

RT: 16.15 min Scan# 4685

Delta R.T. 0.00 min

Lab File: VL031853.D

Acq: 12 Apr 2018 1:36

Tgt Ion: 105 Resp: 372074

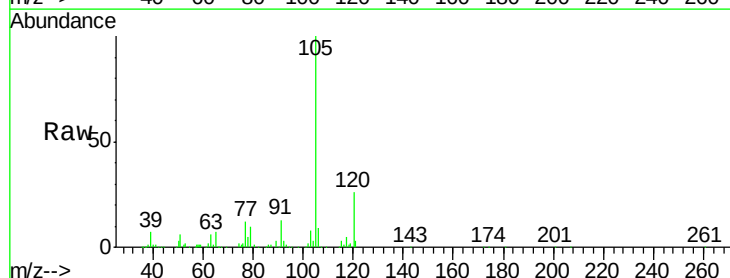
Ion Ratio Lower Upper

105 100

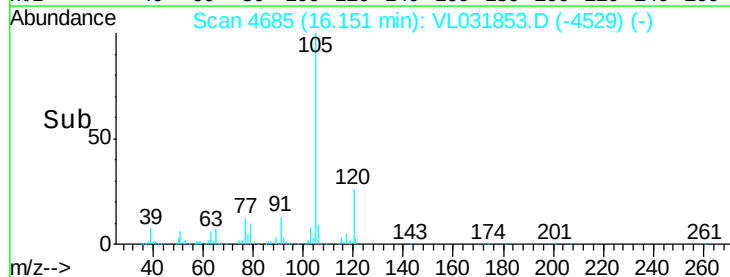
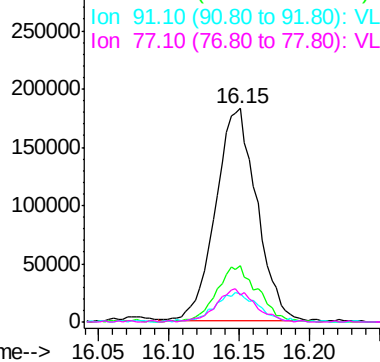
120 26.7 22.6 33.8

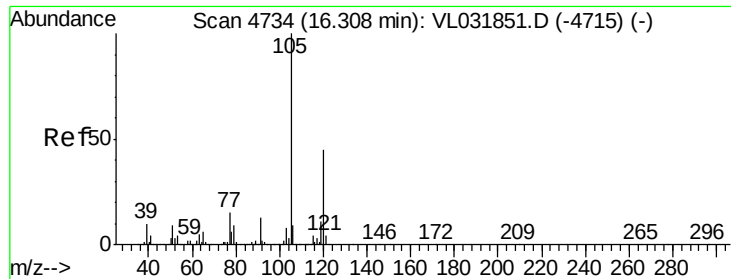
91 14.5 10.7 16.1

77 15.0 11.7 17.5



Abundance Ion 105.10 (104.80 to 105.80): V
Ion 120.20 (119.90 to 120.90): V
Ion 91.10 (90.80 to 91.80): VL0
Ion 77.10 (76.80 to 77.80): VL0





#73

1,3,5-Trimethylbenzene

Concen: 1.016 ppbv

RT: 16.30 min Scan# 4732

Delta R.T. -0.01 min

Lab File: VL031853.D

Acq: 12 Apr 2018 1:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion:105 Resp: 344652

Ion Ratio Lower Upper

105 100

120 41.7

36.3

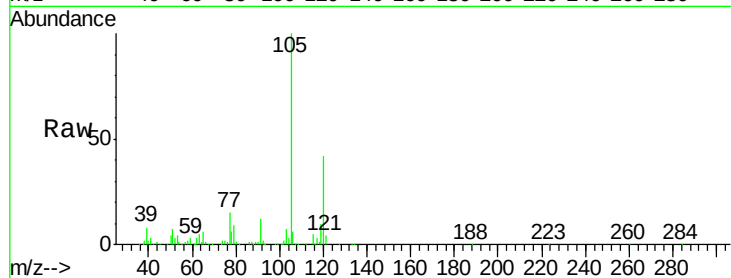
54.5

Manual Integrations

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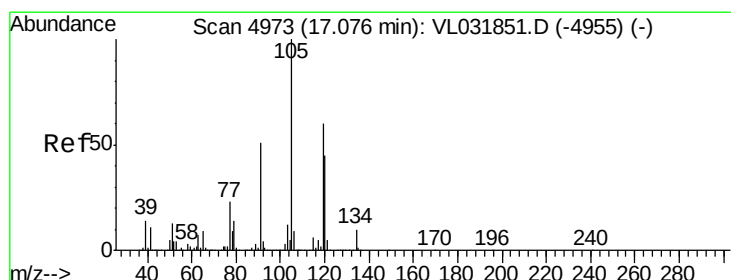
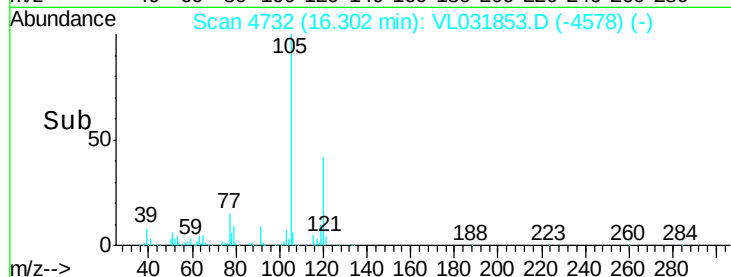
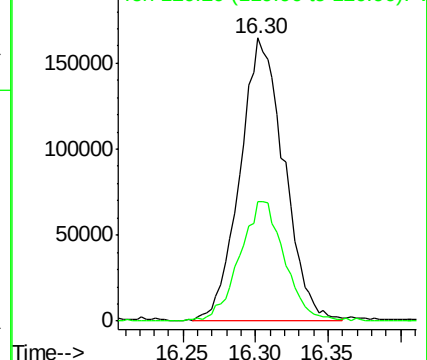
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 1.075 ppbv

RT: 17.07 min Scan# 4971

Delta R.T. -0.01 min

Lab File: VL031853.D

Acq: 12 Apr 2018 1:36

Tgt Ion:105 Resp: 392254

Ion Ratio Lower Upper

105 100

120 39.0

36.2

54.4

91 59.7

43.3

64.9

77 21.1

18.8

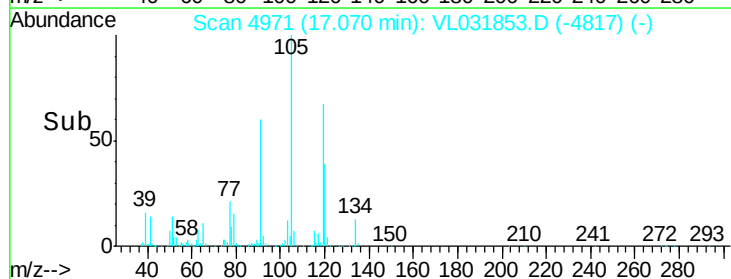
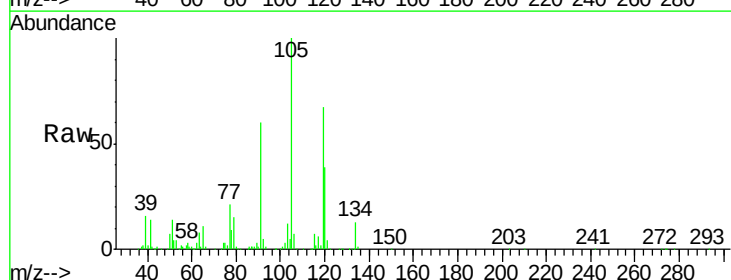
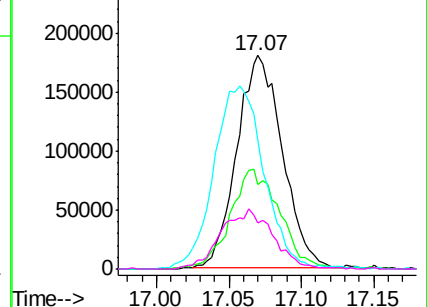
28.2

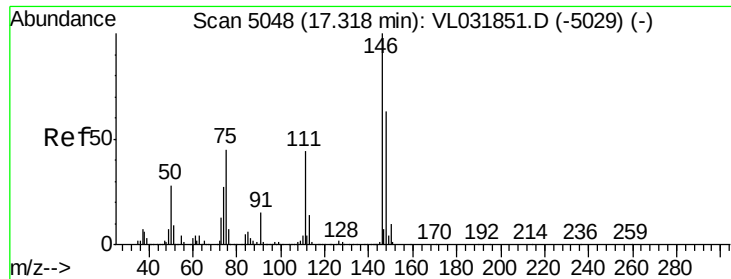
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





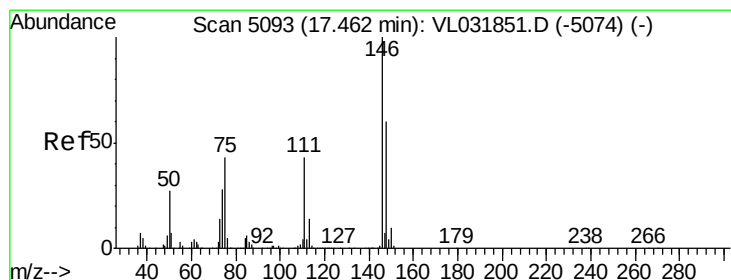
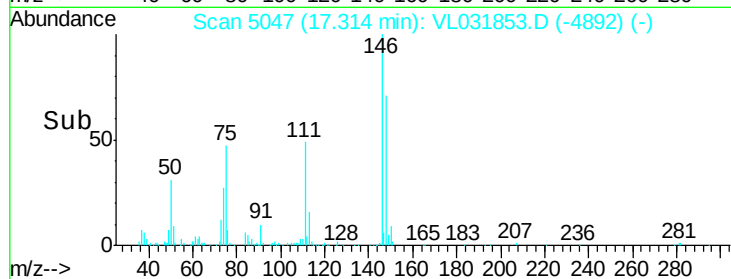
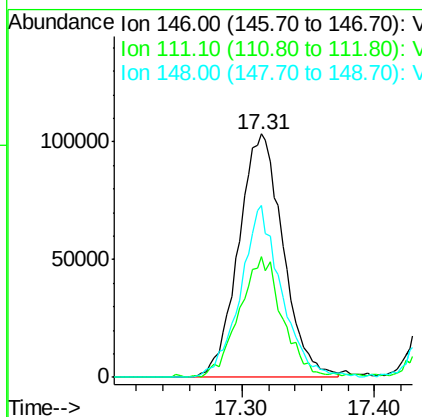
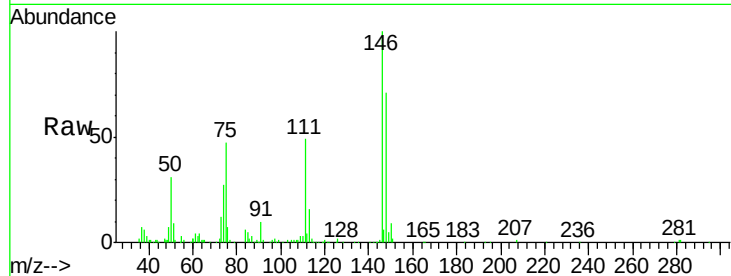
#75
 1,3-Dichlorobenzene
 Concen: 1.078 ppbv
 RT: 17.31 min Scan# 5047
 Delta R.T. -0.00 min
 Lab File: VL031853.D
 Acq: 12 Apr 2018 1:36

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
146	100		
111	49.1	23.4	70.0
148	65.0	32.1	96.5

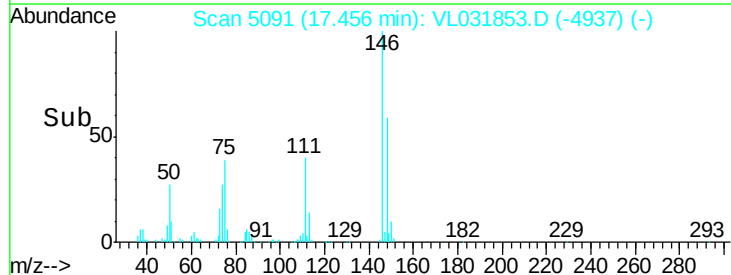
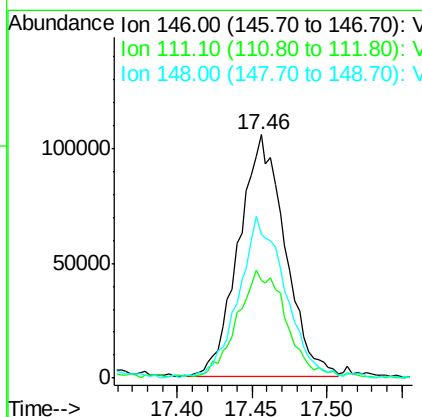
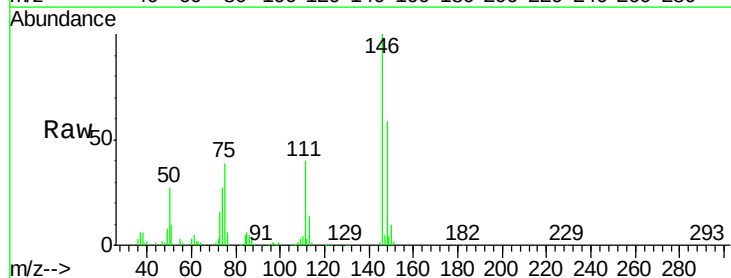
Manual Integrations
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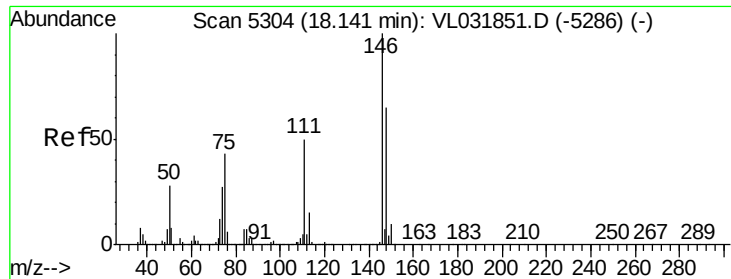
MMDadoda
 4/15/2018 3:06:02 PM



#76
 1,4-Dichlorobenzene
 Concen: 1.000 ppbv
 RT: 17.46 min Scan# 5091
 Delta R.T. -0.01 min
 Lab File: VL031853.D
 Acq: 12 Apr 2018 1:36

Tgt Ion	Ratio	Lower	Upper
146	100		
111	48.4	22.9	68.7
148	67.0	32.1	96.5





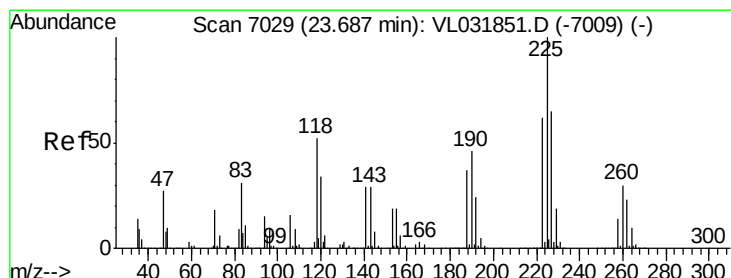
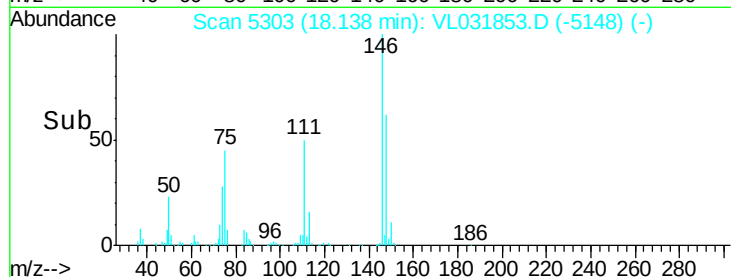
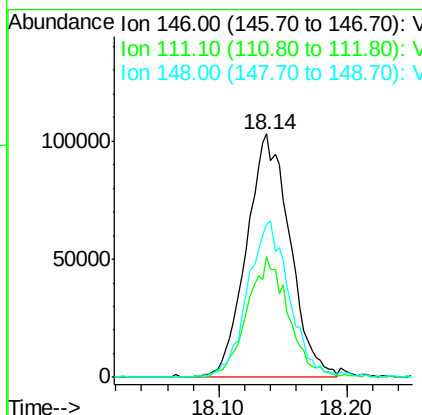
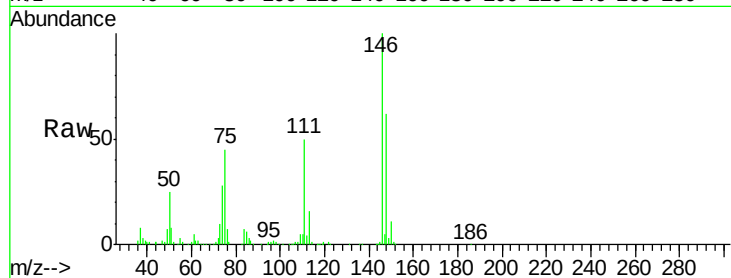
#77
 1,2-Dichlorobenzene
 Concen: 1.122 ppbv
 RT: 18.14 min Scan# 5303
 Delta R.T. -0.00 min
 Lab File: VL031853.D
 Acq: 12 Apr 2018 1:36

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
146	100		
111	47.4	24.3	72.8
148	62.2	31.7	95.1

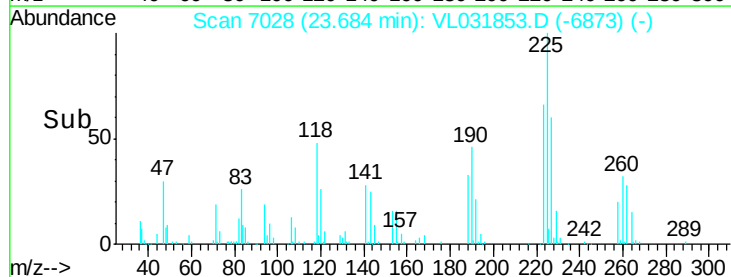
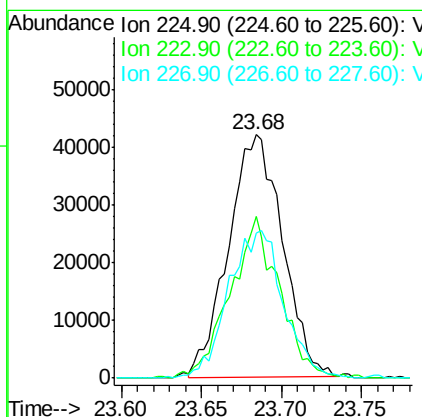
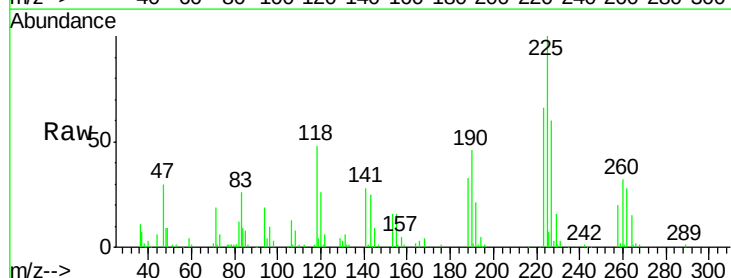
Manual Integrations
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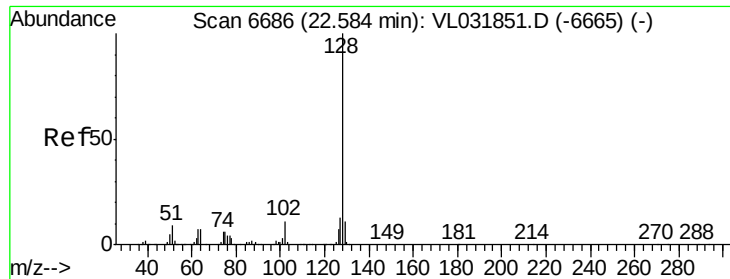
MMDadoda
 4/15/2018 3:06:02 PM



#78
 Hexachloro-1,3-Butadiene
 Concen: 1.090 ppbv
 RT: 23.68 min Scan# 7028
 Delta R.T. -0.00 min
 Lab File: VL031853.D
 Acq: 12 Apr 2018 1:36

Tgt Ion	Ratio	Lower	Upper
225	100		
223	60.9	50.3	75.5
227	61.8	50.8	76.2





#79

Naphthalene

Concen: 0.847 ppbv m

RT: 22.59 min Scan# 6689

Delta R.T. 0.01 min

Lab File: VL031853.D

Acq: 12 Apr 2018 1:36

Instrument :

MSVOA_L

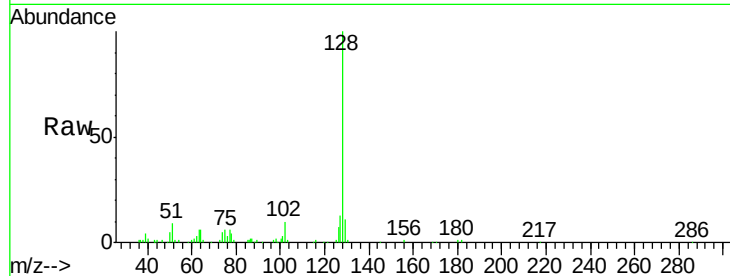
ClientSampleId :

VSTDIC001

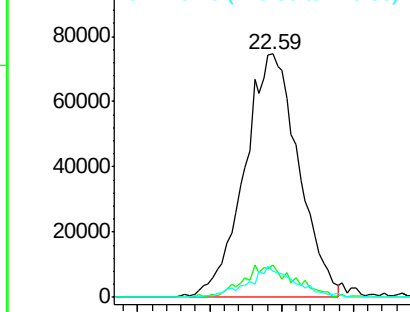
Tot Ion:	128	Resp:	195109
Ion Ratio	Lower	Upper	
128	100		
127	13.2	10.4	15.6
129	10.5	9.1	13.7

Manual Integrations
APPROVED

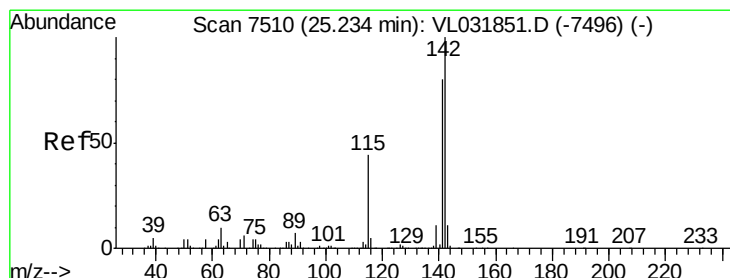
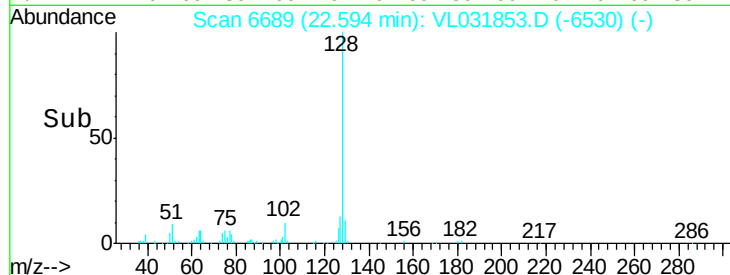
MMDadoda
4/15/2018 3:06:02 PM



Abundance Ion 128.10 (127.80 to 128.80): V
Ion 127.10 (126.80 to 127.80): V
Ion 129.10 (128.80 to 129.80): V



Time-->



#80

Naphthalene, 2-methyl-

Concen: 0.549 ppbv

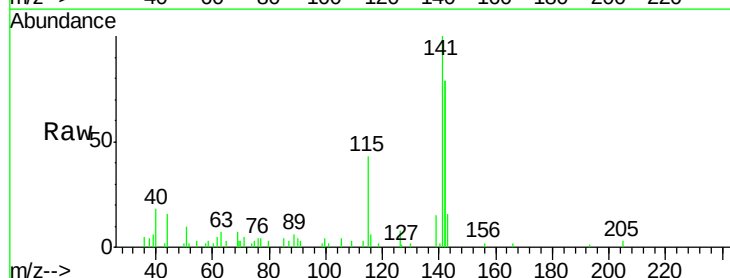
RT: 25.24 min Scan# 7513

Delta R.T. 0.01 min

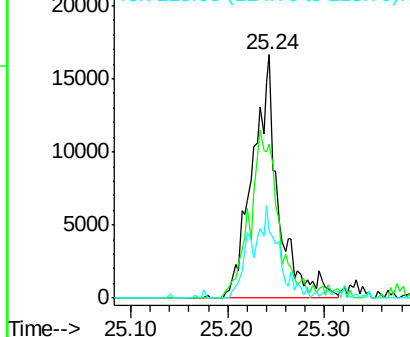
Lab File: VL031853.D

Acq: 12 Apr 2018 1:36

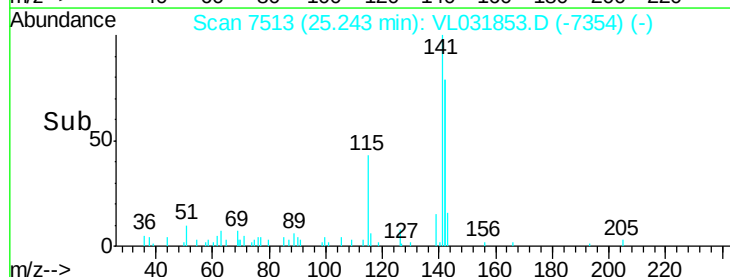
Tgt Ion:	142	Resp:	31296
Ion Ratio	Lower	Upper	
142	100		
141	73.3	65.8	98.8
115	39.1	35.8	53.6

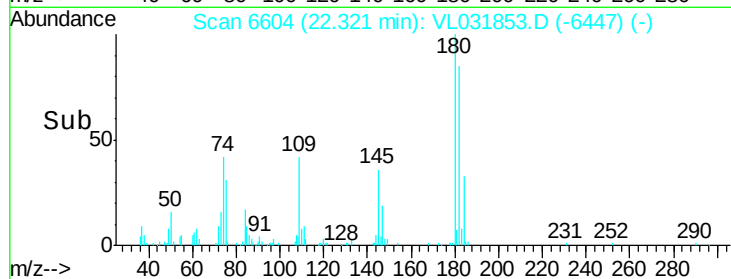
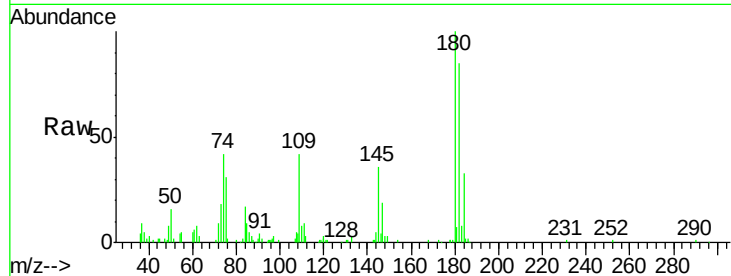
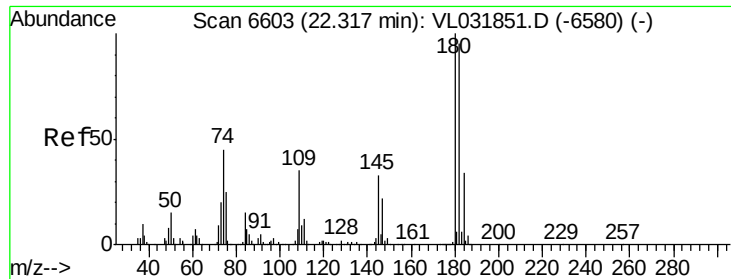


Abundance Ion 142.00 (141.70 to 142.70): V
Ion 141.00 (140.70 to 141.70): V
Ion 115.00 (114.70 to 115.70): V



Time-->





#81
 1,2,4-Trichlorobenzene
 Concen: 0.905 ppbv m
 RT: 22.32 min Scan# 6604
 Delta R.T. 0.00 min
 Lab File: VL031853.D
 Acq: 12 Apr 2018 1:36

Tot Ion	Ratio	Resp	Lower	Upper
180	100	113949		
182	94.3	76.6	114.8	
184	31.5	25.0	37.4	

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Manual Integrations
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